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INSTALLATION RESTORATION PROGRAM
PHASE II - CONFIRMATION/QUANTIFICATION
STAGE 2

VOLUME 4 OF 4

for
Seymour Johnson Air Force Base, NC

by
Research Triangle Institute
Center for Environmental Measurements
P. O. Box 12194
Research Triangle Park, NC 27709

November 1988

FINAL REPORT

Prepared For

Headquarters Tactical Air Command
HQ TAC/SGPB
Langley Air Force Base, VA 23665-5007

DTIC
ELECTE
DEC 27 1988
S E D

United States Air Force
Occupational & Environmental Health Laboratory (USAF0EHL)
Brooks Air Force Base, Texas 78235-5501

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APPENDIX X

REPORTED ORGANIC LABORATORY RESULTS

VALID DATA

IEA REPORT DATE: JANUARY 15, 1987

IEA REPORT NO.: 103-105

FILE COPY



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 15, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-105

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on fourteen samples submitted to our laboratory on November 17, 1986.

Please see the enclosed report for your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

JAN 19 1987

HYDROGEOLOGY DEPARTMENT

Offices and laboratories located in: ^{VT-3}Essex Junction, Vermont
Research Triangle Park, North Carolina

January 15, 1987
IEA Report No. 103-105

| | | | | | | | | | | |
|--------------------------|-------|-----|--------------------|----------------|----------------|-----------------|------------------|------------------|----------------|----------------|
| Petroleum Hydrocarbon | mg/Kg | 25 | Detection Limit | SB-56 0-2'B | SB-56 3-5'B | SB-56 8-10'B | SB-56 13-15'B | SB-56 15-18'B | SB-57 0-2'B | SB-57 2-4'B |
| | | 310 | | BDL | BDL | BDL | BDL | BDL | 560 | BDL |

X-4

| | | | | | | | | | | |
|--------------------------|-------|----|--------------------|----------------|-----------------|------------------|----------------|----------------|-----------------|------------------|
| Petroleum Hydrocarbon | mg/Kg | 25 | Detection Limit | SB-57 4-6'B | SB-57 9-11'B | SB-57 11-13'B | SB-55 1-3'B | SB-55 3-5'B | SB-55 9-11'B | SB-55 11-13'B |
| | | | | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

BDL: Below Detection Limit

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 14

Sample Identification SB-55, 11-13'B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BDL |
| 2 | 2-CHLOROPHENOL | 1000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BDL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BDL |
| 7 | 2-NITROPHENOL | 1000 | BDL |
| 8 | 4-NITROPHENOL | 1000 | BDL |
| 9 | PENTACHLOROPHENOL | 1000 | BDL |
| 10 | PHENOL | 1000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 2

Sample Identification SB-56, 3-5' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|----------------------------|------------------------|--|
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BDL |
| 2 | 2-CHLOROPHENOL | 1000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BDL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BDL |
| 7 | 2-NITROPHENOL | 1000 | BDL |
| 8 | 4-NITROPHENOL | 1000 | BDL |
| 9 | PENTACHLOROPHENOL | 1000 | BDL |
| 10 | PHENOL | 1000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 3

Sample Identification SB-56, 8-10' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BDL |
| 2 | 2-CHLOROPHENOL | 1000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BDL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BDL |
| 7 | 2-NITROPHENOL | 1000 | BDL |
| 8 | 4-NITROPHENOL | 1000 | BDL |
| 9 | PENTACHLOROPHENOL | 1000 | BDL |
| 10 | PHENOL | 1000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 4

Sample Identification SB-56, 13-15' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BDL |
| 2 | 2-CHLOROPHENOL | 1000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BDL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BDL |
| 7 | 2-NITROPHENOL | 1000 | BDL |
| 8 | 4-NITROPHENOL | 1000 | BDL |
| 9 | PENTACHLOROPHENOL | 1000 | BDL |
| 10 | PHENOL | 1000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 5

Sample Identification SB-56, 15-18' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BDL |
| 2 | 2-CHLOROPHENOL | 1000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BDL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BDL |
| 7 | 2-NITROPHENOL | 1000 | BDL |
| 8 | 4-NITROPHENOL | 1000 | BDL |
| 9 | PENTACHLOROPHENOL | 1000 | BDL |
| 10 | PHENOL | 1000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 6

Sample Identification SB-57, 0-2' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|----------------------------|------------------------|--|
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 10,000 | BDL |
| 2 | 2-CHLOROPHENOL | 10,000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 10,000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 10,000 | BDL |
| 5 | 2,4-DINITROPHENOL | 100,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 100,000 | BDL |
| 7 | 2-NITROPHENOL | 10,000 | BDL |
| 8 | 4-NITROPHENOL | 10,000 | BDL |
| 9 | PENTACHLOROPHENOL | 10,000 | BDL |
| 10 | PHENOL | 10,000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 10,000 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

602

| | Detection Limit | Concentration |
|---------|-----------------|---------------|
| Xylenes | 1.0 | BDL |

Purgeable Aromatics

IEA Sample No. 103105 14

Sample Identification SB-55, 11-13' B

Date Analyzed November 20, 1986

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|---------------------|------------------------|--|
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

602

Xylenes

Detection Limit
1.0

Concentration
BDL

Purgeable Aromatics

IEA Sample No. 103105 11

Sample Identification SB-55, 1-3' B

Date Analyzed November 20, 1986

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

602

Detection Limit

Concentration

Xylenes

1.0

BDL

Purgeable Aromatics

IEA Sample No. 103105 1

Sample Identification SB-56, 0-2'B

Date Analyzed November 19, 1986

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | Results <u>Concentration</u> |
|---------------|---------------------|------------------------|--|
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

602

| | Detection Limit | Concentration |
|---------|-----------------|---------------|
| Xylenes | 1.0 | BDL |

Purgeable Aromatics

IEA Sample No. 103105 2

Sample Identification SB-56, 3-5' B

Date Analyzed November 19, 1986 By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> |
| | | | <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

602

| | Detection Limit | Concentration |
|---------|-----------------|---------------|
| Xylenes | 1.0 | BDL |

Purgeable Aromatics

IEA Sample No. 103105 3

Sample Identification SB-56, 8-10' B

Date Analyzed November 18, 1986

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> |
| | | | <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

602

| | Detection Limit | Concentration |
|---------|-----------------|---------------|
| Xylenes | 1.0 | BDL |

Purgeable Aromatics

IEA Sample No. 103105 4

Sample Identification 38-56, 13-15' B

Date Analyzed November 18, 1986 By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

602

| | Detection Limit | Concentration |
|---------|-----------------|---------------|
| Xylenes | 1.0 | BDL |

Purgeable Aromatics

IEA Sample No. 103105 5

Sample Identification SB-56, 15-18' B

Date Analyzed November 18, 1986 By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> <u>ug/Kg</u> | <u>Results</u> <u>Concentration</u> <u>ug/Kg</u> |
|---------------|---------------------|--|--|
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

| | | | |
|----------|-----------------------------|-----------------|---------------|
| Comments | BDL - BELOW DETECTION LIMIT | | |
| | Method 8020. | | |
| | <u>602</u> | Detection Limit | Concentration |
| | Xylenes | 1.0 | BDL |

Purgeable Aromatics

IEA Sample No. 103105 7
 Sample Identification SB-57, 2-4' B
 Date Analyzed November 19, 1986 By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> |
| 1 | Benzene | 1.0 | 1.0 |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

602

| | Detection Limit | Concentration |
|---------|-----------------|---------------|
| Xylenes | 1.0 | BDL |

Purgeable Aromatics

IEA Sample No. 103105 8

Sample Identification SB-57, 4-6' B

Date Analyzed November 20, 1986

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

| | | | |
|----------|-----------------------------|-----------------|---------------|
| Comments | BDL - BELOW DETECTION LIMIT | | |
| | Method 8020. | | |
| | <u>602</u> | Detection Limit | Concentration |
| | Xylenes | 1.0 | BDL |

Purgeable Aromatics

IEA Sample No. 103105 9
 Sample Identification SB-57, 9-11' B
 Date Analyzed November 19, 1986 By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | Results <u>Concentration</u> |
|---------------|---------------------|------------------------|--|
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

602

| | Detection Limit | Concentration |
|---------|-----------------|---------------|
| Xylenes | 1.0 | BDL |

Purgeable Aromatics

IEA Sample No. 103105 10

Sample Identification SB-57, 11-13' B

Date Analyzed November 19, 1986 By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 2

Sample Identification SB-56, 3-5' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | ALDRIN | 400 | BDL |
| 2 | Alpha - BHC | 400 | BDL |
| 3 | Beta - BHC | 400 | BDL |
| 4 | Delta - BHC | 400 | BDL |
| 5 | Gamma - BHC | 400 | BDL |
| 6 | CHLORDANE | 400 | BDL |
| 7 | 4,4'-DDD | 400 | BDL |
| 8 | 4,4'-DDE | 400 | BDL |
| 9 | 4,4'-DDT | 400 | BDL |
| 10 | DIELDRIN | 400 | BDL |
| 11 | ENDOSULFAN I | 400 | BDL |
| 12 | ENDOSULFAN II | 400 | BDL |
| 13 | ENDOSULFAN SULFATE | 400 | BDL |
| 14 | ENDRIN | 400 | BDL |
| 15 | ENDRIN ALDEHYDE | 400 | BDL |
| 16 | HEPTACHLOR | 400 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BDL |
| 18 | TOXAPHENE | 400 | BDL |
| 19 | PCB 1016 | 400 | BDL |
| 20 | PCB 1221 | 400 | BDL |
| 21 | PCB 1232 | 400 | BDL |
| 22 | PCB 1242 | 400 | BDL |
| 23 | PCB 1248 | 400 | BDL |
| 24 | PCB 1254 | 400 | BDL |
| 25 | PCB 1260 | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 3

Sample Identification SB-56, 8-10' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | ALDRIN | 400 | BDL |
| 2 | Alpha - BHC | 400 | BDL |
| 3 | Beta - BHC | 400 | BDL |
| 4 | Delta - BHC | 400 | BDL |
| 5 | Gamma - BHC | 400 | BDL |
| 6 | CHLORDANE | 400 | BDL |
| 7 | 4,4'-DDD | 400 | BDL |
| 8 | 4,4'-DDE | 400 | BDL |
| 9 | 4,4'-DDT | 400 | BDL |
| 10 | DIELDRIN | 400 | BDL |
| 11 | ENDOSULFAN I | 400 | BDL |
| 12 | ENDOSULFAN II | 400 | BDL |
| 13 | ENDODULFAN SULFATE | 400 | BDL |
| 14 | ENDRIN | 400 | BDL |
| 15 | ENDRIN ALDEHYDE | 400 | BDL |
| 16 | HEPTACHLOR | 400 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BDL |
| 18 | TOXAPHENE | 400 | BDL |
| 19 | PCB 1016 | 400 | BDL |
| 20 | PCB 1221 | 400 | BDL |
| 21 | PCB 1232 | 400 | BDL |
| 22 | PCB 1242 | 400 | BDL |
| 23 | PCB 1248 | 400 | BDL |
| 24 | PCB 1254 | 400 | BDL |
| 25 | PCB 1260 | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 4

Sample Identification SB-56, 13-15' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | ALDRIN | 400 | BDL |
| 2 | Alpha - BHC | 400 | BDL |
| 3 | Beta - BHC | 400 | BDL |
| 4 | Delta - BHC | 400 | BDL |
| 5 | Gamma - BHC | 400 | BDL |
| 6 | CHLORDANE | 400 | BDL |
| 7 | 4,4'-DDD | 400 | BDL |
| 8 | 4,4'-DDE | 400 | BDL |
| 9 | 4,4'-DDT | 400 | BDL |
| 10 | DIELDRIN | 400 | BDL |
| 11 | ENDOSULFAN I | 400 | BDL |
| 12 | ENDOSULFAN II | 400 | BDL |
| 13 | ENDOSULFAN SULFATE | 400 | BDL |
| 14 | ENDRIN | 400 | BDL |
| 15 | ENDRIN ALDEHYDE | 400 | BDL |
| 16 | HEPTACHLOR | 400 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BDL |
| 18 | TOXAPHENE | 400 | BDL |
| 19 | PCB 1016 | 400 | BDL |
| 20 | PCB 1221 | 400 | BDL |
| 21 | PCB 1232 | 400 | BDL |
| 22 | PCB 1242 | 400 | BDL |
| 23 | PCB 1248 | 400 | BDL |
| 24 | PCB 1254 | 400 | BDL |
| 25 | PCB 1260 | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 5

Sample Identification SB-56, 15-18' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | ALDRIN | 400 | BDL |
| 2 | Alpha - BHC | 400 | BDL |
| 3 | Beta - BHC | 400 | BDL |
| 4 | Delta - BHC | 400 | BDL |
| 5 | Gamma - BHC | 400 | BDL |
| 6 | CHLORDANE | 400 | BDL |
| 7 | 4,4'-DDD | 400 | BDL |
| 8 | 4,4'-DDE | 400 | BDL |
| 9 | 4,4'-DDT | 400 | BDL |
| 10 | DIELDRIN | 400 | BDL |
| 11 | ENDOSULFAN I | 400 | BDL |
| 12 | ENDOSULFAN II | 400 | BDL |
| 13 | ENDODULFAN SULFATE | 400 | BDL |
| 14 | ENDRIN | 400 | BDL |
| 15 | ENDRIN ALDEHYDE | 400 | BDL |
| 16 | HEPTACHLOR | 400 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BDL |
| 18 | TOXAPHENE | 400 | BDL |
| 19 | PCB 1016 | 400 | BDL |
| 20 | PCB 1221 | 400 | BDL |
| 21 | PCB 1232 | 400 | BDL |
| 22 | PCB 1242 | 400 | BDL |
| 23 | PCB 1248 | 400 | BDL |
| 24 | PCB 1254 | 400 | BDL |
| 25 | PCB 1260 | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 2 Sample Identification SB-56, 3-5'B

Date Extracted November 24, 1986 Date Analyzed December 23, 1986

By Daniels

GS/MS Base/Neutral Extractables

| Number | | Compound | Detection Limit ug/Kg | Concentration ug/Kg |
|--------|--|-------------------------------|--------------------------|------------------------|
| 1 | | ACENAPHTHENE | 1000 | BDL |
| 2 | | ACENAPHTHYLENE | 400 | BDL |
| 3 | | ANTHRACENE | 400 | BDL |
| 4 | | BENZIDINE | 400 | BDL |
| 5 | | BENZO (a) ANTHRACENE | 400 | BDL |
| 6 | | BENZO (a) PYRENE | 400 | BDL |
| 7 | | BENZO (b) FLUORANTHENE | 400 | BDL |
| 8 | | BENZO (ghi) PERYLENE | 1000 | BDL |
| 9 | | BENZO (k) FLUORANTHENE | 400 | BDL |
| 10 | | BIS (2-CHLOROETHOXY) METHANE | 400 | BDL |
| 11 | | BIS (2-CHLOROETHYL) ETHER | 400 | BDL |
| 12 | | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BDL |
| 13 | | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | 890 |
| 14 | | 4-BROMOPHENYL PHENYL ETHER | 400 | BDL |
| 15 | | BENZYL BUTYL PHTHALATE | 400 | BDL |
| 16 | | 2-CHLORONAPHTHALENE | 400 | BDL |
| 17 | | 4-CHLOROPHENYL PHENYL ETHER | 400 | BDL |
| 18 | | CHRYSENE | 400 | BDL |
| 19 | | DIBENZO (a,h) ANTHRACENE | 400 | BDL |
| 20 | | 1,2-DICHLOROBENZENE | 400 | BDL |
| 21 | | 1,3-DICHLOROBENZENE | 400 | BDL |
| 22 | | 1,4-DICHLOROBENZENE | 400 | BDL |
| 23 | | 3,3'-DICHLOROBENZIDINE | 400 | BDL |
| 24 | | DIETHYL PHTHALATE | 400 | BDL |
| 25 | | DIMETHYL PHTHALATE | 400 | BDL |
| 26 | | DI-N-BUTYL PHTHALATE | 400 | BDL |
| 27 | | 2,4-DINITROTOLUENE | 400 | BDL |
| 28 | | 2,6-DINITROTOLUENE | 400 | BDL |
| 29 | | DI-N-OCTYL PHTHALATE | 400 | BDL |
| 30 | | FLUORANTHENE | 400 | BDL |
| 31 | | FLUORENE | 400 | BDL |
| 32 | | HEXACHLOROBENZENE | 400 | BDL |
| 33 | | HEXACHLOROBUTADIENE | 400 | BDL |
| 34 | | HEXACHLOROCYCLOPENTADIENE | 400 | BDL |
| 35 | | HEXACHLOROETHANE | 400 | BDL |
| 36 | | INDENO (1,2,3-cd) PYRENE | 1000 | BDL |
| 37 | | ISOPHORONE | 400 | BDL |
| 38 | | NAPHTHALENE | 400 | BDL |
| 39 | | NITROBENZENE | 400 | BDL |
| 40 | | N-NITROSODIMETHYLAMINE | 400 | BDL |
| 41 | | N-NITroso-DI-N-PROPYLAMINE | 400 | BDL |
| 42 | | N-NITROSODIPHENYLAMINE | 400 | BDL |
| 43 | | PHENANTHRENE | 400 | BDL |
| 44 | | PYRENE | 400 | BDL |
| 45 | | 1,2,4-TRICHLOROBENZENE | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 3 Sample Identification SB-56, 8-10' B

Date Extracted November 24, 1986 Date Analyzed December 23, 1986

By Harris

GS/MS Base/Neutral Extractables

| | | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| Number | Compound | ug/Kg | ug/Kg |
| 1 | ACENAPHTHENE | 1000 | BDL |
| 2 | ACENAPHTHYLENE | 400 | BDL |
| 3 | ANTHRACENE | 400 | BDL |
| 4 | BENZIDINE | 400 | BDL |
| 5 | BENZO (a) ANTHRACENE | 400 | BDL |
| 6 | BENZO (a) PYRENE | 400 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BDL |
| 8 | BENZO (ghi) PERYLENE | 1000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | 4100 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BDL |
| 18 | CHRYSENE | 400 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BDL |
| 24 | DIETHYL PHTHALATE | 400 | BDL |
| 25 | DIMETHYL PHTHALATE | 400 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | BDL |
| 27 | 2,4-DINITROTOLUENE | 400 | BDL |
| 28 | 2,6-DINITROTOLUENE | 400 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 400 | BDL |
| 30 | FLUORANTHENE | 400 | BDL |
| 31 | FLUORENE | 400 | BDL |
| 32 | HEXACHLOROBENZENE | 400 | BDL |
| 33 | HEXACHLOROBUTADIENE | 400 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BDL |
| 35 | HEXACHLOROETHANE | 400 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BDL |
| 37 | ISOPHORONE | 400 | BDL |
| 38 | NAPHTHALENE | 400 | BDL |
| 39 | NITROBENZENE | 400 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 400 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BDL |
| 43 | PHENANTHRENE | 400 | BDL |
| 44 | PYRENE | 400 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 4

Sample Identification SB-56, 13-15' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

GS/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/Kg | ug/Kg |
| 1 | ACENAPHTHENE | 1000 | BDL |
| 2 | ACENAPHTHYLENE | 400 | BDL |
| 3 | ANTHRACENE | 400 | BDL |
| 4 | BENZIDINE | 400 | BDL |
| 5 | BENZO (a) ANTHRACENE | 400 | BDL |
| 6 | BENZO (a) PYRENE | 400 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BDL |
| 8 | BENZO (ghi) PERYLENE | 1000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BDL |
| 18 | CHRYSENE | 400 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BDL |
| 24 | DIETHYL PHTHALATE | 400 | BDL |
| 25 | DIMETHYL PHTHALATE | 400 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | BDL |
| 27 | 2,4-DINITROTOLUENE | 400 | BDL |
| 28 | 2,6-DINITROTOLUENE | 400 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 400 | BDL |
| 30 | FLUORANTHENE | 400 | BDL |
| 31 | FLUORENE | 400 | BDL |
| 32 | HEXACHLOROBENZENE | 400 | BDL |
| 33 | HEXACHLOROBUTADIENE | 400 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BDL |
| 35 | HEXACHLOROETHANE | 400 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BDL |
| 37 | ISOPHORONE | 400 | BDL |
| 38 | NAPHTHALENE | 400 | BDL |
| 39 | NITROBENZENE | 400 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 400 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BDL |
| 43 | PHENANTHRENE | 400 | BDL |
| 44 | PYRENE | 400 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 5 Sample Identification SB-56,15-18'B

Date Extracted November 24, 1986 Date Analyzed December 23, 1986

By Harris

GS/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | µg/Kg | µg/Kg |
| 1 | ACENAPHTHENE | 1000 | BDL |
| 2 | ACENAPHTHYLENE | 400 | BDL |
| 3 | ANTHRACENE | 400 | BDL |
| 4 | BENZIDINE | 400 | BDL |
| 5 | BENZO (a) ANTHRACENE | 400 | BDL |
| 6 | BENZO (a) PYRENE | 400 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BDL |
| 8 | BENZO (ghi) PERYLENE | 1000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BDL |
| 18 | CHRYSENE | 400 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BDL |
| 24 | DIETHYL PHTHALATE | 400 | BDL |
| 25 | DIMETHYL PHTHALATE | 400 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | BDL |
| 27 | 2,4-DINITROTOLUENE | 400 | BDL |
| 28 | 2,6-DINITROTOLUENE | 400 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 400 | 690 |
| 30 | FLUORANTHENE | 400 | BDL |
| 31 | FLUORENE | 400 | BDL |
| 32 | HEXACHLOROBENZENE | 400 | BDL |
| 33 | HEXACHLOROBUTADIENE | 400 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BDL |
| 35 | HEXACHLOROETHANE | 400 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BDL |
| 37 | ISOPHORONE | 400 | BDL |
| 38 | NAPHTHALENE | 400 | BDL |
| 39 | NITROBENZENE | 400 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 400 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BDL |
| 43 | PHENANTHRENE | 400 | BDL |
| 44 | PYRENE | 400 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 6 Sample Identification SB-57, 0-2' B

Date Extracted November 24, 1986 Date Analyzed December 23, 1986

By Harris

| GS/MS Base/Neutral Extractables | | Detection Limit | Concentration |
|---------------------------------|-------------------------------|-----------------|---------------|
| Number | Compound | ug/Kg | ug/Kg |
| 1 | ACENAPHTHENE | 10,000 | BDL |
| 2 | ACENAPHTHYLENE | 4000 | BDL |
| 3 | ANTHRACENE | 4000 | BDL |
| 4 | BENZIDINE | 4000 | BDL |
| 5 | BENZO (a) ANTHRACENE | 4000 | BDL |
| 6 | BENZO (a) PYRENE | 4000 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 4000 | BDL |
| 8 | BENZO (ghi) PERYLENE | 10,000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 4000 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 4000 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 4000 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 4000 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 4000 | 24,000 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 4000 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 4000 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 4000 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 4000 | BDL |
| 18 | CHRYSENE | 4000 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 4000 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 4000 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 4000 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 4000 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 4000 | BDL |
| 24 | DIETHYL PHTHALATE | 4000 | BDL |
| 25 | DIMETHYL PHTHALATE | 4000 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 4000 | 7400 |
| 27 | 2,4-DINITROTOLUENE | 4000 | BDL |
| 28 | 2,6-DINITROTOLUENE | 4000 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 4000 | BDL |
| 30 | FLUORANTHENE | 4000 | BDL |
| 31 | FLUORENE | 4000 | BDL |
| 32 | HEXACHLOROBENZENE | 4000 | BDL |
| 33 | HEXACHLOROBUTADIENE | 4000 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 4000 | BDL |
| 35 | HEXACHLOROETHANE | 4000 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 10,000 | BDL |
| 37 | ISOPHORONE | 4000 | BDL |
| 38 | NAPHTHALENE | 4000 | BDL |
| 39 | NITROBENZENE | 4000 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 4000 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 4000 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 4000 | BDL |
| 43 | PHENANTHRENE | 4000 | BDL |
| 44 | PYRENE | 4000 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 4000 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 14

Sample Identification SB-55, 11-13'B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | ALDRIN | 400 | BDL |
| 2 | Alpha - BHC | 400 | BDL |
| 3 | Beta - BHC | 400 | BDL |
| 4 | Delta - BHC | 400 | BDL |
| 5 | Gamma - BHC | 400 | BDL |
| 6 | CHLORDANE | 400 | BDL |
| 7 | 4,4'-DDD | 400 | BDL |
| 8 | 4,4'-DDE | 400 | BDL |
| 9 | 4,4'-DDT | 400 | BDL |
| 10 | DIELDRIN | 400 | BDL |
| 11 | ENDOSULFAN I | 400 | BDL |
| 12 | ENDOSULFAN II | 400 | BDL |
| 13 | ENDODULFAN SULFATE | 400 | BDL |
| 14 | ENDRIN | 400 | BDL |
| 15 | ENDRIN ALDEHYDE | 400 | BDL |
| 16 | HEPTACHLOR | 400 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BDL |
| 18 | TOXAPHENE | 400 | BDL |
| 19 | PCB 1016 | 400 | BDL |
| 20 | PCB 1221 | 400 | BDL |
| 21 | PCB 1232 | 400 | BDL |
| 22 | PCB 1242 | 400 | BDL |
| 23 | PCB 1248 | 400 | BDL |
| 24 | PCB 1254 | 400 | BDL |
| 25 | PCB 1260 | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 6

Sample Identification SB-57, 0-2' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | ALDRIN | 4000 | BDL |
| 2 | Alpha - BHC | 4000 | BDL |
| 3 | Beta - BHC | 4000 | BDL |
| 4 | Delta - BHC | 4000 | BDL |
| 5 | Gamma - BHC | 4000 | BDL |
| 6 | CHLORDANE | 4000 | BDL |
| 7 | 4,4'-DDD | 4000 | BDL |
| 8 | 4,4'-DDE | 4000 | BDL |
| 9 | 4,4'-DDT | 4000 | BDL |
| 10 | DIELDRIN | 4000 | BDL |
| 11 | ENDOSULFAN I | 4000 | BDL |
| 12 | ENDOSULFAN II | 4000 | BDL |
| 13 | ENDODULFAN SULFATE | 4000 | BDL |
| 14 | ENDRIN | 4000 | BDL |
| 15 | ENDRIN ALDEHYDE | 4000 | BDL |
| 16 | HEPTACHLOR | 4000 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 4000 | BDL |
| 18 | TOXAPHENE | 4000 | BDL |
| 19 | PCB 1016 | 4000 | BDL |
| 20 | PCB 1221 | 4000 | BDL |
| 21 | PCB 1232 | 4000 | BDL |
| 22 | PCB 1242 | 4000 | BDL |
| 23 | PCB 1248 | 4000 | BDL |
| 24 | PCB 1254 | 4000 | BDL |
| 25 | PCB 1260 | 4000 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 7

Sample Identification SB-57, 2-4' B

Date Extracted November 24, 1986

Date Analyzed January 12, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | ALDRIN | 8000 | BDL |
| 2 | Alpha - BHC | 8000 | BDL |
| 3 | Beta - BHC | 8000 | BDL |
| 4 | Delta - BHC | 8000 | BDL |
| 5 | Gamma - BHC | 8000 | BDL |
| 6 | CHLORDANE | 8000 | BDL |
| 7 | 4,4'-DDD | 8000 | BDL |
| 8 | 4,4'-DDE | 8000 | BDL |
| 9 | 4,4'-DDT | 8000 | BDL |
| 10 | DIELDRIN | 8000 | BDL |
| 11 | ENDOSULFAN I | 8000 | BDL |
| 12 | ENDOSULFAN II | 8000 | BDL |
| 13 | ENDODULFAN SULFATE | 8000 | BDL |
| 14 | ENDRIN | 8000 | BDL |
| 15 | ENDRIN ALDEHYDE | 8000 | BDL |
| 16 | HEPTACHLOR | 8000 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 8000 | BDL |
| 18 | TOXAPHENE | 8000 | BDL |
| 19 | PCB 1016 | 8000 | BDL |
| 20 | PCB 1221 | 8000 | BDL |
| 21 | PCB 1232 | 8000 | BDL |
| 22 | PCB 1242 | 8000 | BDL |
| 23 | PCB 1248 | 8000 | BDL |
| 24 | PCB 1254 | 8000 | BDL |
| 25 | PCB 1260 | 8000 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 8

Sample Identification SB-57, 4-6' B

Date Extracted November 24, 1986

Date Analyzed January 5, 1987

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|----------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> |
| 1 | ALDRIN | 400 | BDL |
| 2 | Alpha - BHC | 400 | BDL |
| 3 | Beta - BHC | 400 | BDL |
| 4 | Delta - BHC | 400 | BDL |
| 5 | Gamma - BHC | 400 | BDL |
| 6 | CHLORDANE | 400 | BDL |
| 7 | 4,4'-DDD | 400 | BDL |
| 8 | 4,4'-DDE | 400 | BDL |
| 9 | 4,4'-DDT | 400 | BDL |
| 10 | DIELDRIN | 400 | BDL |
| 11 | ENDOSULFAN I | 400 | BDL |
| 12 | ENDOSULFAN II | 400 | BDL |
| 13 | ENDODULFAN SULFATE | 400 | BDL |
| 14 | ENDRIN | 400 | BDL |
| 15 | ENDRIN ALDEHYDE | 400 | BDL |
| 16 | HEPTACHLOR | 400 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BDL |
| 18 | TOXAPHENE | 400 | BDL |
| 19 | PCB 1016 | 400 | BDL |
| 20 | PCB 1221 | 400 | BDL |
| 21 | PCB 1232 | 400 | BDL |
| 22 | PCB 1242 | 400 | BDL |
| 23 | PCB 1248 | 400 | BDL |
| 24 | PCB 1254 | 400 | BDL |
| 25 | PCB 1260 | 400 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 9

Sample Identification SB-57, 9-11'B

Date Extracted November 25, 1986

Date Analyzed January 5, 1987

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | ALDRIN | 400 | BDL |
| 2 | Alpha - BHC | 400 | BDL |
| 3 | Beta - BHC | 400 | BDL |
| 4 | Delta - BHC | 400 | BDL |
| 5 | Gamma - BHC | 400 | BDL |
| 6 | CHLORDANE | 400 | BDL |
| 7 | 4,4'-DDD | 400 | BDL |
| 8 | 4,4'-DDE | 400 | BDL |
| 9 | 4,4'-DDT | 400 | BDL |
| 10 | DIELDRIN | 400 | BDL |
| 11 | ENDOSULFAN I | 400 | BDL |
| 12 | ENDOSULFAN II | 400 | BDL |
| 13 | ENDOSULFAN SULFATE | 400 | BDL |
| 14 | ENDRIN | 400 | BDL |
| 15 | ENDRIN ALDEHYDE | 400 | BDL |
| 16 | HEPTACHLOR | 400 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BDL |
| 18 | TOXAPHENE | 400 | BDL |
| 19 | PCB 1016 | 400 | BDL |
| 20 | PCB 1221 | 400 | BDL |
| 21 | PCB 1232 | 400 | BDL |
| 22 | PCB 1242 | 400 | BDL |
| 23 | PCB 1248 | 400 | BDL |
| 24 | PCB 1254 | 400 | BDL |
| 25 | PCB 1260 | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 10

Sample Identification SB-57, 11-13' B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>µg/Kg</u> | <u>µg/Kg</u> |
| 1 | ALDRIN | 400 | BDL |
| 2 | Alpha - BHC | 400 | BDL |
| 3 | Beta - BHC | 400 | BDL |
| 4 | Delta - BHC | 400 | BDL |
| 5 | Gamma - BHC | 400 | BDL |
| 6 | CHLORDANE | 400 | BDL |
| 7 | 4,4'-DDD | 400 | BDL |
| 8 | 4,4'-DDE | 400 | BDL |
| 9 | 4,4'-DDT | 400 | BDL |
| 10 | DIELDRIN | 400 | BDL |
| 11 | ENDOSULFAN I | 400 | BDL |
| 12 | ENDOSULFAN II | 400 | BDL |
| 13 | ENDODULFAN SULFATE | 400 | BDL |
| 14 | ENDRIN | 400 | BDL |
| 15 | ENDRIN ALDEHYDE | 400 | BDL |
| 16 | HEPTACHLOR | 400 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BDL |
| 18 | TOXAPHENE | 400 | BDL |
| 19 | PCB 1016 | 400 | BDL |
| 20 | PCB 1221 | 400 | BDL |
| 21 | PCB 1232 | 400 | BDL |
| 22 | PCB 1242 | 400 | BDL |
| 23 | PCB 1248 | 400 | BDL |
| 24 | PCB 1254 | 400 | BDL |
| 25 | PCB 1260 | 400 | BDL |

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 11Client Identification SB-55, 1-3' BDate Analyzed November 20, 1986 By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloroacetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 12Client Identification SB-55, 3-5' BDate Analyzed November 20, 1986By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloroacetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

Halogenated Volatile OrganicsIEA Number 103-105 13Client Identification SB-55, 9-11' BDate Analyzed November 20, 1986 By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloroacetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 14Client Identification SB-55, 11-13' BDate Analyzed November 20, 1986 By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloroacetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 1Client Identification SB-56, 0-2' BDate Analyzed November 19, 1986By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloracetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 2Client Identification SB-56, 3-5' BDate Analyzed November 19, 1986By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|------------------------------|------------------------|--|
| | | <u>µg/Kg</u> | <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloroacetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

X-42

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 3Client Identification SB-56, 8-10' BDate Analyzed November 18, 1986 By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloracetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 4Client Identification SB-56, 13-15' BDate Analyzed November 18, 1986 By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloracetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIRA Number 103-105 5Client Identification SB-56, 15-18' BDate Analyzed November 18, 1986 By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloracetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 6Client Identification SB-57, 0-2' BDate Analyzed November 19, 1986By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|---------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentrations</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloracetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 7Client Identification SB-57, 2-4' BDate Analyzed November 19, 1986By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloroacetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 8Client Identification SB-57, 4-6' BDate Analyzed November 20, 1986By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloracetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 9Client Identification SB-57, 9-11' BDate Analyzed November 19, 1986By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloracetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 10Client Identification SB-57, 11-13' BDate Analyzed November 19, 1986 By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|------------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Benzyl chloride | 1.0 | BDL |
| 2 | Bis (2-chloroethoxy)methane | 1.0 | BDL |
| 3 | Bis (2-chloroisopropyl)ether | 1.0 | BDL |
| 4 | Bromobenzene | 1.0 | BDL |
| 5 | Bromodichloromethane | 1.0 | BDL |
| 6 | Bromoform | 1.0 | BDL |
| 7 | Bromomethane | 1.0 | BDL |
| 8 | Carbon tetrachloride | 1.0 | BDL |
| 9 | Chloracetaldehyde | 1.0 | BDL |
| 10 | Chloral | 1.0 | BDL |
| 11 | Chlorobenzene | 1.0 | BDL |
| 12 | Chloroethane | 1.0 | BDL |
| 13 | Chloroform | 1.0 | BDL |
| 14 | 1-Chlorohexane | 1.0 | BDL |
| 15 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 16 | Chloromethane | 1.0 | BDL |
| 17 | Chloromethyl methyl ether | 1.0 | BDL |
| 18 | Chlorotoluene | 1.0 | BDL |
| 19 | Dibromochloromethane | 1.0 | BDL |
| 20 | Dibromomethane | 1.0 | BDL |
| 21 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 22 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 23 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 24 | Dichlorodifluoromethane | 1.0 | BDL |
| 25 | 1,1-Dichloroethane | 1.0 | BDL |
| 26 | 1,2-Dichloroethane | 1.0 | BDL |
| 27 | 1,1-Dichloroethylene | 1.0 | BDL |
| 28 | trans-1,2-Dichloroethylene | 1.0 | BDL |
| 29 | Dichloromethane | 1.0 | BDL |
| 30 | 1,2-Dichloropropane | 1.0 | BDL |
| 31 | 1,3-Dichloropropylene | 1.0 | BDL |
| 32 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 33 | 1,1,1,2-Tetrachloroethane | 1.0 | BDL |
| 34 | Tetrachloroethylene | 1.0 | BDL |
| 35 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 36 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 37 | Trichloroethylene | 1.0 | BDL |
| 38 | Trichlorofluoromethane | 1.0 | BDL |
| 39 | Trichloropropane | 1.0 | BDL |
| 40 | Vinyl chloride | 1.0 | BDL |

BDL: Below Detection Limit

X-50

IEA REPORT DATE: JANUARY 26, 1987

IEA REPORT NO.: 103-107
103-108
103-109
103-110

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103107 2Sample Identification Tag 0081Date Analyzed January 16, 1987By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103107 5Sample Identification Tag 0094Date Analyzed January 16, 1987By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103107 10

Sample Identification Tag 0108

Date Analyzed January 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE 001

January 26, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-108

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on fourteen samples submitted to our laboratory on January 9, 1987.

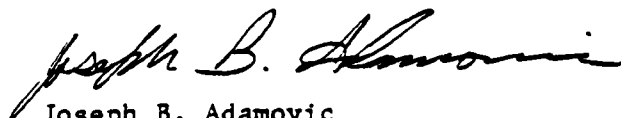
| | | Tag ¹⁾ <u>0121</u> | Tag <u>0127</u> | Tag <u>0133</u> | Tag <u>0139</u> |
|--------------|------|----------------------------------|--------------------|--------------------|--------------------|
| Petroleum | | | | | |
| Hydrocarbons | mg/L | <2.0 | <2.0 | <2.0 | <2.0 |

Please see the enclosed reports for the remainder of your results.

1) Valid Data (see appendix X)

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.



Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

JAN 27 1987

HYDROCARBON ANALYSIS

X-55

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT

602

(Date Error
16 # 23)

Purgeable Aromatics

IEA Sample No. 103108 10

Sample Identification Tag 0135

Date Analyzed January 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103108 2Sample Identification Tag 0118Date Analyzed January 16, 1987By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropane | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601**Purgeable Halocarbons**IEA Sample No. 103108 8Sample Identification Tag 0130Date Analyzed January 16, 1987By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601**Purgeable Halocarbons**IEA Sample No. 103108 11Sample Identification Tag 0136Date Analyzed January 16, 1987By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

IEA REPORT DATE: FEBRUARY 3, 1987

IEA REPORT NO.: 103-113
103-114
103-115
103-116
103-117

February 3, 1987
IEA Report No. 103-116

| | | <u>Tag 0301</u> |
|------------------------|------|-----------------|
| Acrylamide | ug/L | <10 |
| Carbon Disulfide | ug/L | <10 |
| Diethyl Ether | ug/L | <10 |
| Methyl Ethyl Ketone | ug/L | <10 |
| Methyl Isobutyl Ketone | ug/L | <10 |
| Paraldehyde | ug/L | <10 |

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103116 7Sample Identification Tag 0298Date Analyzed January 23, 1987By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | 4.2 |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | 7.5 |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | 4.5 |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | 1.0 |

February 3, 1987
IEA Report No. 103-117

| | | <u>Tag 0312</u> |
|------------------------|------|-----------------|
| Acrylamide | ug/L | <10 |
| Carbon Disulfide | ug/L | <10 |
| Diethyl Ether | ug/L | <10 |
| Methyl Ethyl Ketone | ug/L | <10 |
| Methyl Isobutyl Ketone | ug/L | <10 |
| Paraldehyde | ug/L | <10 |

IEA REPORT DATE: FEBRUARY 5, 1987

IEA REPORT NO.: 103-118

February 5, 1987
IEA Report No. 103-118

| | | <u>Tag 0371</u> | <u>Tag 0375</u> |
|------------------------|-------|---------------------|---------------------|
| Acrylamide | µg/Kg | <25 | <25 |
| Carbon Disulfide | µg/Kg | <25 | <25 |
| Diethyl Ether | µg/Kg | <25 | <25 |
| Methyl Ethyl Ketone | µg/Kg | <25 | <25 |
| Methyl Isobutyl Ketone | µg/Kg | <25 | <25 |
| Paraldehyde | µg/Kg | <25 | <25 |

Comments BDL - BELOW DETECTION LIMIT
Sample diluted by 250.

62SP

GC/MS PCB/Pesticides

IEA Sample No. 103118 1

Sample Identification 9D 12A Tag 0371

Date Extracted January 30, 1987

Date Analyzed February 3, 1987

By Daniela

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | ALDRIN | 2500 | BDL |
| 2 | Alpha - BHC | 2500 | BDL |
| 3 | Beta - BHC | 2500 | BDL |
| 4 | Delta - BHC | 2500 | BDL |
| 5 | Gamma - BHC | 2500 | BDL |
| 6 | CHLORDANE | 2500 | BDL |
| 7 | 4,4'-DDD | 2500 | BDL |
| 8 | 4,4'-DDE | 2500 | BDL |
| 9 | 4,4'-DDT | 2500 | BDL |
| 10 | DIELDRIN | 2500 | BDL |
| 11 | ENDOSULFAN I | 2500 | BDL |
| 12 | ENDOSULFAN II | 2500 | BDL |
| 13 | ENDOSULFAN SULFATE | 2500 | BDL |
| 14 | ENDRIN | 2500 | BDL |
| 15 | ENDRIN ALDEHYDE | 2500 | BDL |
| 16 | HEPTACHLOR | 2500 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 2500 | BDL |
| 18 | TOXAPHENE | 2500 | BDL |
| 19 | PCB 1015 | 2500 | BDL |
| 20 | PCB 1221 | 2500 | BDL |
| 21 | PCB 1232 | 2500 | BDL |
| 22 | PCB 1242 | 2500 | BDL |
| 23 | PCB 1248 | 2500 | BDL |
| 24 | PCB 1254 | 2500 | BDL |
| 25 | PCB 1260 | 2500 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103118 2

Sample Identification SD 13A Tag 0375

Date Extracted January 30, 1987

Date Analyzed February 3, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | ALDRIN | 2500 | BDL |
| 2 | Alpha - BHC | 2500 | BDL |
| 3 | Beta - BHC | 2500 | BDL |
| 4 | Delta - BHC | 2500 | BDL |
| 5 | Gamma - BHC | 2500 | BDL |
| 6 | CHLORDANE | 2500 | BDL |
| 7 | 4,4'-DDD | 2500 | BDL |
| 8 | 4,4'-DDE | 2500 | BDL |
| 9 | 4,4'-DDT | 2500 | BDL |
| 10 | DIELDRIN | 2500 | BDL |
| 11 | ENDOSULFAN I | 2500 | BDL |
| 12 | ENDOSULFAN II | 2500 | BDL |
| 13 | ENDOSULFAN SULFATE | 2500 | BDL |
| 14 | ENDRIN | 2500 | BDL |
| 15 | ENDRIN ALDEHYDE | 2500 | BDL |
| 16 | HEPTACHLOR | 2500 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 2500 | BDL |
| 18 | TOXAPHENE | 2500 | BDL |
| 19 | PCB 1016 | 2500 | BDL |
| 20 | PCB 1221 | 2500 | BDL |
| 21 | PCB 1232 | 2500 | BDL |
| 22 | PCB 1242 | 2500 | BDL |
| 23 | PCB 1248 | 2500 | BDL |
| 24 | PCB 1254 | 2500 | BDL |
| 25 | PCB 1260 | 2500 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Sample diluted by 250.

625A

GC/MS Acid Extractables

IEA Sample No. 103118 1

Sample Identification SD 12A Tag 0371

Date Extracted January 30, 1987

Date Analyzed February 3, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 6250 | BDL |
| 2 | 2-CHLOROPHENOL | 6250 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 6250 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 6250 | BDL |
| 5 | 2,4-DINITROPHENOL | 62,500 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 62,500 | BDL |
| 7 | 2-NITROPHENOL | 6250 | BDL |
| 8 | 4-NITROPHENOL | 6250 | BDL |
| 9 | PENTACHLOROPHENOL | 6250 | BDL |
| 10 | PHENOL | 6250 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 6250 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Sample diluted by 250.

625A

GC/MS Acid Extractables

IEA Sample No. 103118 2

Sample Identification SD 13A Tag 0375

Date Extracted January 30, 1987

Date Analyzed February 3, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 6250 | BDL |
| 2 | 2-CHLOROPHENOL | 6250 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 6250 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 6250 | BDL |
| 5 | 2,4-DINITROPHENOL | 62,500 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 62,500 | BDL |
| 7 | 2-NITROPHENOL | 6250 | BDL |
| 8 | 4-NITROPHENOL | 6250 | BDL |
| 9 | PENTACHLOROPHENOL | 6250 | BDL |
| 10 | PHENOL | 6250 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 6250 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

6258N

Sample diluted by 250.

IEA Sample No. 103118 1

Sample Identification SD 12A Tag 0371

Date Extracted January 30, 1987

Date Analyzed February 3, 1987

By Daniels

GC/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/Kg

ug/Kg

| | | | |
|----|-------------------------------|------|-----|
| 1 | ACENAPHTHENE | 6250 | BDL |
| 2 | ACENAPHTHYLENE | 2500 | BDL |
| 3 | ANTHRACENE | 2500 | BDL |
| 4 | BENZIDINE | 2500 | BDL |
| 5 | BENZO (a) ANTHRACENE | 2500 | BDL |
| 6 | BENZO (a) PYRENE | 2500 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 2500 | BDL |
| 8 | BENZO (ghi) PERYLENE | 6250 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 2500 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 2500 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 2500 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 2500 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 2500 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 2500 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 2500 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 2500 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 2500 | BDL |
| 18 | CHRYSENE | 2500 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 2500 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 2500 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 2500 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 2500 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 2500 | BDL |
| 24 | DIETHYL PHTHALATE | 2500 | BDL |
| 25 | DIMETHYL PHTHALATE | 2500 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 2500 | BDL |
| 27 | 2,4-DINITROTOLUENE | 2500 | BDL |
| 28 | 2,6-DINITROTOLUENE | 2500 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 2500 | BDL |
| 30 | FLUORANTHENE | 2500 | BDL |
| 31 | FLUORENE | 2500 | BDL |
| 32 | HEMACHLOROBENZENE | 2500 | BDL |
| 33 | HEMACHLOROBUTADIENE | 2500 | BDL |
| 34 | HEMACHLOROCYCLOPENTADIENE | 2500 | BDL |
| 35 | HEMACHLOROETHANE | 2500 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 6250 | BDL |
| 37 | ISOPHORONE | 2500 | BDL |
| 38 | NAPHTHALENE | 2500 | BDL |
| 39 | NITROBENZENE | 2500 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 2500 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 2500 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 2500 | BDL |
| 43 | PHENANTHRENE | 2500 | BDL |
| 44 | PYRENE | 2500 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 2500 | BDL |

X-70

Comments

BDL - BELOW DETECTION LIMIT

6256N

Sample diluted by 250.

IEA Sample No. 103118 2

Sample Identification SD 13A Tag 0375

Date Extracted January 30, 1987

Date Analyzed February 3, 1987

By Daniels

GC/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/Kg

ug/Kg

| | | | |
|----|-------------------------------|------|-----|
| 1 | ACENAPHTHENE | 6250 | BDL |
| 2 | ACENAPHTHYLENE | 2500 | BDL |
| 3 | ANTHRACENE | 2500 | BDL |
| 4 | BENZIDINE | 2500 | BDL |
| 5 | BENZO (a) ANTHRACENE | 2500 | BDL |
| 6 | BENZO (a) PYRENE | 2500 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 2500 | BDL |
| 8 | BENZO (ghi) PERYLENE | 6250 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 2500 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 2500 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 2500 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 2500 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 2500 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 2500 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 2500 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 2500 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 2500 | BDL |
| 18 | CHRYSENE | 2500 | BDL |
| 19 | DIBENZO (a,b) ANTHRACENE | 2500 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 2500 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 2500 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 2500 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 2500 | BDL |
| 24 | DIETHYL PHTHALATE | 2500 | BDL |
| 25 | DIMETHYL PHTHALATE | 2500 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 2500 | BDL |
| 27 | 2,4-DINITROTOLUENE | 2500 | BDL |
| 28 | 2,6-DINITROTOLUENE | 2500 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 2500 | BDL |
| 30 | FLUORANTHENE | 2500 | BDL |
| 31 | FLUORENE | 2500 | BDL |
| 32 | HEXACHLOROBENZENE | 2500 | BDL |
| 33 | HEXACHLOROBUTADIENE | 2500 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 2500 | BDL |
| 35 | HEXACHLOROETHANE | 2500 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 6250 | BDL |
| 37 | ISOPHORONE | 2500 | BDL |
| 38 | NAPHTHALENE | 2500 | BDL |
| 39 | NITROBENZENE | 2500 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 2500 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 2500 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 2500 | BDL |
| 43 | PHENANTHRENE | 2500 | BDL |
| 44 | PYRENE | 2500 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 2500 | BDL |

IEA REPORT DATE: FEBRUARY 6, 1987

IEA REPORT NO.: 103-120



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

February 6, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-120

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on two samples submitted to our laboratory on February 4, 1987.

Please see the enclosed report for your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

A handwritten signature in dark ink, appearing to read "Joseph B. Adamovic", is written over the typed name.

Joseph B. Adamovic
Senior Chemist

JBA/tdc

RECEIVED

FEB 11 1987

HYDROGEOLOGY DEPARTMENT

X-73

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

February 6, 1987
Report #103-120

| | <u>#1</u> | <u>#2</u> |
|--------------------------|-----------|-----------|
| Acrylamide | µg/L | <10 |
| Carbon Disulfide | µg/L | <10 |
| Diethyl, Ether | µg/L | <10 |
| Methyl, Ethyl, Ketone | µg/L | <10 |
| Methyl, Isobutyl, Ketone | µg/L | <10 |
| Paraldehyde | µg/L | <10 |

IEA REPORT DATE: FEBRUARY 26, 1987

IEA REPORT NO.: 103-119



Industrial & Environmental Analysts, Inc.
P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

February 26, 1987

RECEIVED

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

MAR 2 1987

HYDROGEOLOGY DEPARTMENT

Reference: IEA Report No. 103-119

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on sixteen samples submitted to our laboratory on January 30, 1987.

| | <u>Date Extracted</u> | <u>Date Analyzed</u> | <u>Tag</u> ¹⁾ <u>0385</u> | <u>Tag</u> ¹⁾ <u>0379</u> | <u>Tag</u> <u>0484</u> | <u>Tag</u> <u>0498</u> |
|---------------------------|---------------------------|--------------------------|---|---|---------------------------|---------------------------|
| Petroleum Hydrocarbons | 2-6-87 | 2-6-87 | <38 mg/Kg | <25 mg/Kg | <2.0 mg/L | <2.0 mg/L |

Please see the enclosed reports for the remainder of your results.

1) Valid Data.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

JBA/jcl

Offices and laboratories located in. X-76
Essex Junction, Vermont
Research Triangle Park, North Carolina

February 26, 1987
IEA Report No. 103-119

| | Tag 0385 <u>µg/Kg</u> | Tag 0379 <u>µg/Kg</u> | Tag 0480 <u>µg/L</u> | Tag 0494 <u>µg/L</u> |
|------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|
| Acrylamide | <10 | <10 | <10 | <10 |
| Carbon Disulfide | <10 | <10 | <10 | <10 |
| Diethyl Ether | <10 | <10 | <10 | <10 |
| Methyl Ethyl Ketone | <10 | <10 | <10 | <10 |
| Methyl Isobutyl Ketone | <10 | <10 | <10 | <10 |
| Paraldehyde | <10 | <10 | <10 | <10 |
| Date Analyzed | 2-3-87 | 2-3-87 | 2-3-87 | 2-3-87 |

Comments

BDL - BELOW DETECTION LIMIT

Sample diluted by 50.

625A

Acid Extractables

IEA Sample No. 103119 2

Sample Identification 0379 Brass Tube

Date Extracted February 4, 1987

Date Analyzed February 23, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> |
| | | | <u>µg/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1250 | BDL |
| 2 | 2-CHLOROPHENOL | 1250 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1250 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1250 | BDL |
| 5 | 2,4-DINITROPHENOL | 12,500 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 12,500 | BDL |
| 7 | 2-NITROPHENOL | 1250 | BDL |
| 8 | 4-NITROPHENOL | 1250 | BDL |
| 9 | PENTACHLOROPHENOL | 1250 | BDL |
| 10 | PHENOL | 1250 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1250 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103119 2

Sample Identification Tag 0379

Date Analyzed February 4, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>µg/Kg</u> | <u>µg/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

Sample diluted by 50.

GC/MS PCB/Pesticides

IEA Sample No. 103119 2

Sample Identification 0379 Brass Tube

Date Extracted February 4, 1987

Date Analyzed February 23, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | ALDRIN | 500 | BDL |
| 2 | Alpha - BHC | 500 | BDL |
| 3 | Beta - BHC | 500 | BDL |
| 4 | Delta - BHC | 500 | BDL |
| 5 | Gamma - BHC | 500 | BDL |
| 6 | CHLORDANE | 500 | BDL |
| 7 | 4,4'-DDD | 500 | BDL |
| 8 | 4,4'-DDE | 500 | BDL |
| 9 | 4,4'-DDT | 500 | BDL |
| 10 | DIELDRIN | 500 | BDL |
| 11 | ENDOSULFAN I | 500 | BDL |
| 12 | ENDOSULFAN II | 500 | BDL |
| 13 | ENDODULFAN SULFATE | 500 | BDL |
| 14 | ENDRIN | 500 | BDL |
| 15 | ENDRIN ALDEHYDE | 500 | BDL |
| 16 | HEPTACHLOR | 500 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 500 | BDL |
| 18 | TOXAPHENE | 500 | BDL |
| 19 | PCB 1016 | 500 | BDL |
| 20 | PCB 1221 | 500 | BDL |
| 21 | PCB 1232 | 500 | BDL |
| 22 | PCB 1242 | 500 | BDL |
| 23 | PCB 1248 | 500 | BDL |
| 24 | PCB 1254 | 500 | BDL |
| 25 | PCB 1260 | 500 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625BN

Sample diluted by 50.

IEA Sample No. 103119 2

Sample Identification 0379 Brass Tube

Date Extracted February 4, 1987

Date Analyzed February 23, 1987

By King

GC/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/Kg

ug/Kg

| | | | |
|----|-------------------------------|------|-----|
| 1 | ACENAPHTHENE | 1250 | BDL |
| 2 | ACENAPHTHYLENE | 500 | BDL |
| 3 | ANTHRACENE | 500 | BDL |
| 4 | BENZIDINE | 500 | BDL |
| 5 | BENZO (a) ANTHRACENE | 500 | BDL |
| 6 | BENZO (a) PYRENE | 500 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 500 | BDL |
| 8 | BENZO (ghi) PERYLENE | 1250 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 500 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 500 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 500 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 500 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 500 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 500 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 500 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 500 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 500 | BDL |
| 18 | CHRYSENE | 500 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 500 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 500 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 500 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 500 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 500 | BDL |
| 24 | DIETHYL PHTHALATE | 500 | BDL |
| 25 | DIMETHYL PHTHALATE | 500 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 500 | BDL |
| 27 | 2,4-DINITROTOLUENE | 500 | BDL |
| 28 | 2,6-DINITROTOLUENE | 500 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 500 | BDL |
| 30 | FLUORANTHENE | 500 | BDL |
| 31 | FLUORENE | 500 | BDL |
| 32 | HEXACHLOROBENZENE | 500 | BDL |
| 33 | HEXACHLOROBUTADIENE | 500 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 500 | BDL |
| 35 | HEXACHLOROETHANE | 500 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1250 | BDL |
| 37 | ISOPHORONE | 500 | BDL |
| 38 | NAPHTHALENE | 500 | BDL |
| 39 | NITROBENZENE | 500 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 500 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 500 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 500 | BDL |
| 43 | PHENANTHRENE | 500 | BDL |
| 44 | PYRENE | 500 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 500 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Sample diluted by 50.

625A

Acid Extractables

IEA Sample No. 103119 1

Sample Identification 0385 Brass Tube

Date Extracted February 4, 1987

Date Analyzed February 23, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>µg/Kg</u> | <u>µg/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1250 | BDL |
| 2 | 2-CHLOROPHENOL | 1250 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1250 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1250 | BDL |
| 5 | 2,4-DINITROPHENOL | 12,500 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 12,500 | BDL |
| 7 | 2-NITROPHENOL | 1250 | BDL |
| 8 | 4-NITROPHENOL | 1250 | BDL |
| 9 | PENTACHLOROPHENOL | 1250 | BDL |
| 10 | PHENOL | 1250 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1250 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103119 1

Sample Identification Tag 0385

Date Analyzed February 4, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>µg/Kg</u> | <u>µg/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

Sample diluted by 50.

GC/MS PCB/Pesticides

IEA Sample No. 103119 1

Sample Identification 0385 Brass Tube

Date Extracted February 4, 1987

Date Analyzed February 23, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>µg/Kg</u> | <u>µg/Kg</u> |
| 1 | ALDRIN | 500 | BDL |
| 2 | Alpha - BHC | 500 | BDL |
| 3 | Beta - BHC | 500 | BDL |
| 4 | Delta - BHC | 500 | BDL |
| 5 | Gamma - BHC | 500 | BDL |
| 6 | CHLORDANE | 500 | BDL |
| 7 | 4,4'-DDD | 500 | BDL |
| 8 | 4,4'-DDE | 500 | BDL |
| 9 | 4,4'-DDT | 500 | BDL |
| 10 | DIELDRIN | 500 | BDL |
| 11 | ENDOSULFAN I | 500 | BDL |
| 12 | ENDOSULFAN II | 500 | BDL |
| 13 | ENDOSULFAN SULFATE | 500 | BDL |
| 14 | ENDRIN | 500 | BDL |
| 15 | ENDRIN ALDEHYDE | 500 | BDL |
| 16 | HEPTACHLOR | 500 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 500 | BDL |
| 18 | TOXAPHENE | 500 | BDL |
| 19 | PCB 1016 | 500 | BDL |
| 20 | PCB 1221 | 500 | BDL |
| 21 | PCB 1232 | 500 | BDL |
| 22 | PCB 1242 | 500 | BDL |
| 23 | PCB 1248 | 500 | BDL |
| 24 | PCB 1254 | 500 | BDL |
| 25 | PCB 1260 | 500 | BDL |

Comments BDL - BELOW DETECTION LIMIT

6258N

Sample diluted by 50.

IEA Sample No. 103119 1

Sample Identification 0385 Brass Tube

Date Extracted February 4, 1987

Date Analyzed February 23, 1987

By King

GC/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/Kg | ug/Kg |
| 1 | ACENAPHTHENE | 1250 | BDL |
| 2 | ACENAPHTHYLENE | 500 | BDL |
| 3 | ANTHRACENE | 500 | BDL |
| 4 | BENZIDINE | 500 | BDL |
| 5 | BENZO (a) ANTHRACENE | 500 | BDL |
| 6 | BENZO (a) PYRENE | 500 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 500 | BDL |
| 8 | BENZO (ghi) PERYLENE | 1250 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 500 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 500 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 500 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 500 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 500 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 500 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 500 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 500 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 500 | BDL |
| 18 | CHRYSENE | 500 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 500 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 500 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 500 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 500 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 500 | BDL |
| 24 | DIETHYL PHTHALATE | 500 | BDL |
| 25 | DIMETHYL PHTHALATE | 500 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 500 | BDL |
| 27 | 2,4-DINITROTOLUENE | 500 | BDL |
| 28 | 2,6-DINITROTOLUENE | 500 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 500 | BDL |
| 30 | FLUORANTHENE | 500 | BDL |
| 31 | FLUORENE | 500 | BDL |
| 32 | HEXACHLOROBENZENE | 500 | BDL |
| 33 | HEXACHLOROBUTADIENE | 500 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 500 | BDL |
| 35 | HEXACHLOROETHANE | 500 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1250 | BDL |
| 37 | ISOPHORONE | 500 | BDL |
| 38 | NAPHTHALENE | 500 | BDL |
| 39 | NITROBENZENE | 500 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 500 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 500 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 500 | BDL |
| 43 | PHENANTHRENE | 500 | BDL |
| 44 | PYRENE | 500 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 500 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103119 3

Sample Identification Tag 0476

Date Analyzed February 4, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103119 4

Sample Identification Tag 0477

Date Analyzed February 4, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103119 8

Sample Identification 0486

Date Extracted February 4, 1987

Date Analyzed February 10, 1987

By King

GC/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/L | ug/L |
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103119 8

Sample Identification 0486

Date Extracted February 4, 1987

Date Analyzed February 10, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDODULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103119 9

Sample Identification 0487

Date Extracted February 4, 1987

Date Analyzed February 10, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103119 10

Sample Identification Tag 0490

Date Analyzed February 4, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103119 15 Sample Identification 0500
Date Extracted February 4, 1987 Date Analyzed February 10, 1987
By King

GC/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/L | ug/L |
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103119 15

Sample Identification 0500

Date Extracted February 4, 1987

Date Analyzed February 10, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103119 16

Sample Identification 0501

Date Extracted February 4, 1987

Date Analyzed February 10, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|----------------------------|------------------------|--|
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

6011,1,2-Trichloro-1,2,2-Trifluoroethane -
Concentration: 14 µg/Kg**Purgeable Halocarbons**IEA Sample No. 103119 2Sample Identification Tag 0379Date Analyzed February 5, 1987By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropene | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | 1.1 |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601

1,1,2-Trichloro-1,2,2-Trifluoroethane -
Concentration: 15 µg/Kg

Purgeable Halocarbons

IEA Sample No. 103119 1

Sample Identification Tag 0385

Date Analyzed February 4, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethane | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropene | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | 8.5 |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103119 11

Sample Identification Tag 0491

Date Analyzed February 4, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>µg/L</u> | <u>Concentration</u> <u>µg/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethene | 1.0 | BDL |
| 16 | 1,2-Dichloroethene | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | 2.7 |

IEA REPORT DATE: MARCH 17, 1987

IEA REPORT NO.: 103-123
103-125
103-126



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

March 17, 1987

RECEIVED

MAR 17 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

HYDROGEOLOGY DEPARTMENT

Reference: IEA Report No. 103-123

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on twenty-two samples submitted to our laboratory on March 2, 1987.

Please see the enclosed reports for your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

JBA/jcl

X-99

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 3

Sample Identification 0579

Date Analyzed March 4, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | 8.0 |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | 3.0 |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

602

Purgeable Aromatics

IEA Sample No. 103123 3

Sample Identification 0579

Date Analyzed March 4, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/Lg</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | 11 |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 5

Sample Identification 0581

Date Analyzed March 2, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 7

Sample Identification 0583

Date Analyzed March 2, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 11

Sample Identification 0585

Date Analyzed March 2, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>µg/L</u> | <u>µg/L</u> |
| 1 | Benzene | 1.0 | 5.0 |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

602

Purgeable Aromatics

IEA Sample No. 103123 11

Sample Identification 0585

Date Analyzed March 2, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | 5.0 |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 15

Sample Identification 0587

Date Analyzed March 2, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 19

Sample Identification 0589

Date Analyzed March 2, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | Benzene | 1.0 | 7.0 |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

602

Purgeable Aromatics

IEA Sample No. 103123 19

Sample Identification 0589

Date Analyzed March 2, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | 7.0 |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 1

Sample Identification 0806

Date Analyzed March 3, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 2

Sample Identification 0807

Date Analyzed March 3, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>µg/Kg</u> | <u>µg/Kg</u> |
| 1 | Benzene | 1.0 | 5.0 |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

602

Purgeable Aromatics

IEA Sample No. 103123 2

Sample Identification 0807

Date Analyzed March 3, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601

Analyzed on 1% SP-1000 column.

Purgeable HalocarbonsIEA Sample No. 103123 3Sample Identification 0579Date Analyzed March 1, 1987By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | 23 |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601

Confirmatory analysis on 3% SP- 1500 column.

Purgeable HalocarbonsIEA Sample No. 103123 4Sample Identification 0580Date Analyzed March 11, 1987By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | 13 |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 5

Sample Identification 0581

Date Analyzed March 1, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 3.6 |
| 19 | 1,2-Dichloropropene | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-100 column.

601**Purgeable Halocarbons**IEA Sample No. 103123 7Sample Identification 0583Date Analyzed March 1, 1987By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | 6.0 |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 1.0 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | 6.0 |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601**Purgeable Halocarbons**IEA Sample No. 103123 11Sample Identification 0585Date Analyzed March 1, 1987By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethyl vinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 13 |
| 19 | 1,2-Dichloropropene | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | 3.6 |

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601**Purgeable Halocarbons**IEA Sample No. 103123 15Sample Identification 0587Date Analyzed March 1, 1987By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 1.7 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 19

Sample Identification 0589

Date Analyzed March 1, 1987

By Folk

| Number | Compound | Results | |
|--------|---------------------------|-----------------|-----------------|
| | | Detection Limit | Concentration |
| | | $\mu\text{g/L}$ | $\mu\text{g/L}$ |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 41 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | 3.8 |

Comments

BDL - BELOW DETECTION LIMIT

601

Analyzed on 1% SP-1000 column.

Purgeable HalocarbonsIEA Sample No. 103123 1Sample Identification 0806Date Analyzed March 1, 1987By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|--------------------------------------|
| | | <u>µg/Kg</u> | <u>Concentration</u> <u>µg/Kg</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropene | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

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Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 2

Sample Identification 0807

Date Analyzed March 1, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

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March 17, 1987

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MAR 17 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

HYDROGEOLOGY DEPARTMENT

Reference: IEA Report No. 103-125

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on eight samples submitted to our laboratory on March 3, 1987.

Please see the enclosed reports for your results.

Very truly yours,

INDUSTRIAL & ENVIROMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist
TSU

JBA/jcl

X-121

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103125 1

Sample Identification 0077

Date Analyzed March 3, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103125 2

Sample Identification 0078

Date Analyzed March 3, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601

Purgeable Halocarbons

IEA Sample No. 103125 1

Sample Identification 0077

Date Analyzed March 3, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | 6.0 |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 12 |
| 19 | 1,2-Dichloropropene | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | 25 |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | 79 |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601**Purgeable Halocarbons**IEA Sample No. 103125 1Sample Identification 0077Date Analyzed March 3, 1987By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 12 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | 22 |

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601

Purgeable Halocarbons

IEA Sample No. 103125 5

Sample Identification 0547

Date Analyzed March 3, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | 3.0 |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601

Purgeable Halocarbons

IEA Sample No. 103125 5

Sample Identification 0547

Date Analyzed March 3, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropene | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | 3.0 |



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

March 17, 1987

RECEIVED

MAR 17 198

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

HYDROGEN

Reference: IEA Report No. 103-126

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on eight samples submitted to our laboratory on March 5, 1987.

Please see the enclosed reports for your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

TSA

JBA/jcl

X-128

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103126 1

Sample Identification 0069

Date Analyzed March 12, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | 2.0 |
| 2 | Chlorobenzene | 1.0 | 15 |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | 7.0 |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | 4.0 |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

602

Purgeable Aromatics

IEA Sample No. 103126 1

Sample Identification 0069

Date Analyzed March 12, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | 2.0 |
| 2 | Chlorobenzene | 1.0 | 12 |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | 14 |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | 2.0 |

Comments BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103126 5

Sample Identification 0073

Date Analyzed March 12, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | 8.0 |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | 13 |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

602

Purgeable Aromatics

IEA Sample No. 103126 5

Sample Identification 0073

Date Analyzed March 12, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | 7.0 |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | 12 |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601**Purgeable Halocarbons**IEA Sample No. 103126 1Sample Identification 0069Date Analyzed March 12, 1987By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | 15 |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | 7.0 |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601

Purgeable Halocarbons

IEA Sample No. 103126 1

Sample Identification 0069

Date Analyzed March 12, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | 12 |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | 14 |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601

Analyzed on 1% SP-1000 column.

Purgeable HalocarbonsIEA Sample No. 103126 5Sample Identification 0073Date Analyzed March 12, 1987By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | 8.0 |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | 13 |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601

Confirmatory analysis on 3% SP-1500 column.

Purgeable HalocarbonsIEA Sample No. 103126 5Sample Identification 0073Date Analyzed March 12, 1987By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | 8.0 |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | 12 |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropene | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

IEA SAMPLE NO.: 103-132

Comments BQL - BELOW QUANTITATION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103132 5

Sample Identification 0572

Date Analyzed April 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> <u>ug/Kg</u> | <u>Results</u> <u>Concentration</u> <u>ug/Kg</u> |
|---------------|---------------------|---|--|
| 1 | Benzene | 1.0 | BQL |
| 2 | Chlorobenzene | 1.0 | BQL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BQL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BQL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BQL |
| 6 | Ethylbenzene | 1.0 | BQL |
| 7 | Toluene | 1.0 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103132 2

Sample Identification 0752

Date Analyzed April 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|---------------------|---------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | BQL |
| 2 | Chlorobenzene | 1.0 | BQL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BQL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BQL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BQL |
| 6 | Ethylbenzene | 1.0 | BQL |
| 7 | Toluene | 1.0 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103132 3

Sample Identification 0754

Date Analyzed April 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> <u>ug/Kg</u> | <u>Results</u> <u>Concentration</u> <u>ug/Kg</u> |
|---------------|---------------------|---|--|
| 1 | Benzene | 1.0 | BQL |
| 2 | Chlorobenzene | 1.0 | BQL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BQL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BQL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BQL |
| 6 | Ethylbenzene | 1.0 | BQL |
| 7 | Toluene | 1.0 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103132 1

Sample Identification 0568

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|----------------------------|---------------------------|--|
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BQL |
| 2 | 2-CHLOROPHENOL | 1000 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BQL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BQL |
| 7 | 2-NITROPHENOL | 1000 | BQL |
| 8 | 4-NITROPHENOL | 1000 | BQL |
| 9 | PENTACHLOROPHENOL | 1000 | BQL |
| 10 | PHENOL | 1000 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103132 4

Sample Identification 0570

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|----------------------------|---------------------------|--|
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BQL |
| 2 | 2-CHLOROPHENOL | 1000 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BQL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BQL |
| 7 | 2-NITROPHENOL | 1000 | BQL |
| 8 | 4-NITROPHENOL | 1000 | BQL |
| 9 | PENTACHLOROPHENOL | 1000 | BQL |
| 10 | PHENOL | 1000 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103132 2

Sample Identification 0752

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> ____ <u>ug/Kg</u> | <u>Results</u> <u>Concentration</u> ____ <u>ug/Kg</u> |
|---------------|----------------------------|--|---|
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BQL |
| 2 | 2-CHLOROPHENOL | 1000 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BQL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BQL |
| 7 | 2-NITROPHENOL | 1000 | BQL |
| 8 | 4-NITROPHENOL | 1000 | BQL |
| 9 | PENTACHLOROPHENOL | 1000 | BQL |
| 10 | PHENOL | 1000 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103132 3

Sample Identification 0754

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BQL |
| 2 | 2-CHLOROPHENOL | 1000 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BQL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BQL |
| 7 | 2-NITROPHENOL | 1000 | BQL |
| 8 | 4-NITROPHENOL | 1000 | BQL |
| 9 | PENTACHLOROPHENOL | 1000 | BQL |
| 10 | PHENOL | 1000 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103132 1

Sample Identification 0568

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | ALDRIN | 400 | BQL |
| 2 | Alpha - BHC | 400 | BQL |
| 3 | Beta - BHC | 400 | BQL |
| 4 | Delta - BHC | 400 | BQL |
| 5 | Gamma - BHC | 400 | BQL |
| 6 | CHLORDANE | 400 | BQL |
| 7 | 4,4'-DDD | 400 | BQL |
| 8 | 4,4'-DDE | 400 | BQL |
| 9 | 4,4'-DDT | 400 | BQL |
| 10 | DIELDRIN | 400 | BQL |
| 11 | ENDOSULFAN I | 400 | BQL |
| 12 | ENDOSULFAN II | 400 | BQL |
| 13 | ENDOSULFAN SULFATE | 400 | BQL |
| 14 | ENDRIN | 400 | BQL |
| 15 | ENDRIN ALDEHYDE | 400 | BQL |
| 16 | HEPTACHLOR | 400 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BQL |
| 18 | TOXAPHENE | 400 | BQL |
| 19 | PCB 1016 | 400 | BQL |
| 20 | PCB 1221 | 400 | BQL |
| 21 | PCB 1232 | 400 | BQL |
| 22 | PCB 1242 | 400 | BQL |
| 23 | PCB 1248 | 400 | BQL |
| 24 | PCB 1254 | 400 | BQL |
| 25 | PCB 1260 | 400 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625P

(NOTE: 625P
1A) 500000
LIMIT 700000)

GC/MS PCB/Pesticides

IEA Sample No. 103132 4

Sample Identification 0570

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | ALDRIN | 400 | BQL |
| 2 | Alpha - BHC | 400 | BQL |
| 3 | Beta - BHC | 400 | BQL |
| 4 | Delta - BHC | 400 | BQL |
| 5 | Gamma - BHC | 400 | BQL |
| 6 | CHLORDANE | 400 | BQL |
| 7 | 4,4'-DDD | 400 | BQL |
| 8 | 4,4'-DDE | 400 | BQL |
| 9 | 4,4'-DDT | 400 | BQL |
| 10 | DIELDRIN | 400 | BQL |
| 11 | ENDOSULFAN I | 400 | BQL |
| 12 | ENDOSULFAN II | 400 | BQL |
| 13 | ENDODULFAN SULFATE | 400 | BQL |
| 14 | ENDRIN | 400 | BQL |
| 15 | ENDRIN ALDEHYDE | 400 | BQL |
| 16 | HEPTACHLOR | 400 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BQL |
| 18 | TOXAPHENE | 400 | BQL |
| 19 | PCB 1016 | 400 | BQL |
| 20 | PCB 1221 | 400 | BQL |
| 21 | PCB 1232 | 400 | BQL |
| 22 | PCB 1242 | 400 | BQL |
| 23 | PCB 1248 | 400 | BQL |
| 24 | PCB 1254 | 400 | BQL |
| 25 | PCB 1260 | 400 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103132 2

Sample Identification 0752

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|----------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> |
| 1 | ALDRIN | 400 | BQL |
| 2 | Alpha - BHC | 400 | BQL |
| 3 | Beta - BHC | 400 | BQL |
| 4 | Delta - BHC | 400 | BQL |
| 5 | Gamma - BHC | 400 | BQL |
| 6 | CHLORDANE | 400 | BQL |
| 7 | 4,4'-DDD | 400 | BQL |
| 8 | 4,4'-DDE | 400 | BQL |
| 9 | 4,4'-DDT | 400 | BQL |
| 10 | DIELDRIN | 400 | BQL |
| 11 | ENDOSULFAN I | 400 | BQL |
| 12 | ENDOSULFAN II | 400 | BQL |
| 13 | ENDODULFAN SULFATE | 400 | BQL |
| 14 | ENDRIN | 400 | BQL |
| 15 | ENDRIN ALDEHYDE | 400 | BQL |
| 16 | HEPTACHLOR | 400 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BQL |
| 18 | TOXAPHENE | 400 | BQL |
| 19 | PCB 1016 | 400 | BQL |
| 20 | PCB 1221 | 400 | BQL |
| 21 | PCB 1232 | 400 | BQL |
| 22 | PCB 1242 | 400 | BQL |
| 23 | PCB 1248 | 400 | BQL |
| 24 | PCB 1254 | 400 | BQL |
| 25 | PCB 1260 | 400 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103132 3

Sample Identification 0754

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | ALDRIN | 400 | BQL |
| 2 | Alpha - BHC | 400 | BQL |
| 3 | Beta - BHC | 400 | BQL |
| 4 | Delta - BHC | 400 | BQL |
| 5 | Gamma - BHC | 400 | BQL |
| 6 | CHLORDANE | 400 | BQL |
| 7 | 4,4'-DDD | 400 | BQL |
| 8 | 4,4'-DDE | 400 | BQL |
| 9 | 4,4'-DDT | 400 | BQL |
| 10 | DIELDRIN | 400 | BQL |
| 11 | ENDOSULFAN I | 400 | BQL |
| 12 | ENDOSULFAN II | 400 | BQL |
| 13 | ENDODULFAN SULFATE | 400 | BQL |
| 14 | ENDRIN | 400 | BQL |
| 15 | ENDRIN ALDEHYDE | 400 | BQL |
| 16 | HEPTACHLOR | 400 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BQL |
| 18 | TOXAPHENE | 400 | BQL |
| 19 | PCB 1016 | 400 | BQL |
| 20 | PCB 1221 | 400 | BQL |
| 21 | PCB 1232 | 400 | BQL |
| 22 | PCB 1242 | 400 | BQL |
| 23 | PCB 1248 | 400 | BQL |
| 24 | PCB 1254 | 400 | BQL |
| 25 | PCB 1260 | 400 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

e

IEA Sample No. 103132 1

Sample Identification 0568

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

ug/Kg

ug/Kg

| | | | |
|----|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 1000 | BQL |
| 2 | ACENAPHTHYLENE | 400 | BQL |
| 3 | ANTHRACENE | 400 | BQL |
| 4 | BENZIDINE | 400 | BQL |
| 5 | BENZO (a) ANTHRACENE | 400 | BQL |
| 6 | BENZO (a) PYRENE | 400 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BQL |
| 8 | BENZO (gm) PERYLENE | 1000 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | 3000 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BQL |
| 18 | CHRYSENE | 400 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BQL |
| 24 | DIETHYL PHTHALATE | 400 | BQL |
| 25 | DIMETHYL PHTHALATE | 400 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | BQL |
| 27 | 2,4-DINITROTOLUENE | 400 | BQL |
| 28 | 2,6-DINITROTOLUENE | 400 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 400 | BQL |
| 30 | FLUORANTHENE | 400 | BQL |
| 31 | FLUORENE | 400 | BQL |
| 32 | HEXACHLOROBENZENE | 400 | BQL |
| 33 | HEXACHLOROBUTADIENE | 400 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BQL |
| 35 | HEXACHLOROETHANE | 400 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BQL |
| 37 | ISOPHORONE | 400 | BQL |
| 38 | NAPHTHALENE | 400 | BQL |
| 39 | NITROBENZENE | 400 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 400 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BQL |
| 43 | PHENANTHRENE | 400 | BQL |
| 44 | PYRENE | 400 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

2

IEA Sample No. 103132 4

Sample Identification 0570

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

(5-21-87) 112
C 12087-003

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/Kg | ug/Kg |
|--------|-------------------------------|-------|-------|
| 1 | ACENAPHTHENE | 1000 | BQL |
| 2 | ACENAPHTHYLENE | 400 | BQL |
| 3 | ANTHRACENE | 400 | BQL |
| 4 | BENZIDINE | 400 | BQL |
| 5 | BENZO (a) ANTHRACENE | 400 | BQL |
| 6 | BENZO (a) PYRENE | 400 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BQL |
| 8 | BENZO (ghi) PERYLENE | 1000 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | 3200 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BQL |
| 18 | CHRYSENE | 400 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BQL |
| 24 | DIETHYL PHTHALATE | 400 | BQL |
| 25 | DIMETHYL PHTHALATE | 400 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | BQL |
| 27 | 2,4-DINITROTOLUENE | 400 | BQL |
| 28 | 2,6-DINITROTOLUENE | 400 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 400 | BQL |
| 30 | FLUORANTHENE | 400 | BQL |
| 31 | FLUORENE | 400 | BQL |
| 32 | HEXACHLOROBENZENE | 400 | BQL |
| 33 | HEXACHLOROBUTADIENE | 400 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BQL |
| 35 | HEXACHLOROETHANE | 400 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BQL |
| 37 | ISOPHORONE | 400 | BQL |
| 38 | NAPHTHALENE | 400 | BQL |
| 39 | NITROBENZENE | 400 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 400 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BQL |
| 43 | PHENANTHRENE | 400 | BQL |
| 44 | PYRENE | 400 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

2

IEA Sample No. 103132 2

Sample Identification 0752

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

ug/Kg

ug/Kg

| | | | |
|----|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 1000 | BQL |
| 2 | ACENAPHTHYLENE | 400 | BQL |
| 3 | ANTHRACENE | 400 | BQL |
| 4 | BENZIDINE | 400 | BQL |
| 5 | BENZO (a) ANTHRACENE | 400 | BQL |
| 6 | BENZO (a) PYRENE | 400 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BQL |
| 8 | BENZO (gm) PERYLENE | 1000 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | 5300 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BQL |
| 18 | CHRYSENE | 400 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BQL |
| 24 | DIETHYL PHTHALATE | 400 | BQL |
| 25 | DIMETHYL PHTHALATE | 400 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | BQL |
| 27 | 2,4-DINITROTOLUENE | 400 | BQL |
| 28 | 2,6-DINITROTOLUENE | 400 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 400 | BQL |
| 30 | FLUORANTHENE | 400 | BQL |
| 31 | FLUORENE | 400 | BQL |
| 32 | HEXACHLOROBENZENE | 400 | BQL |
| 33 | HEXACHLOROBUTADIENE | 400 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BQL |
| 35 | HEXACHLOROETHANE | 400 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BQL |
| 37 | ISOPHORONE | 400 | BQL |
| 38 | NAPHTHALENE | 400 | BQL |
| 39 | NITROBENZENE | 400 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 400 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BQL |
| 43 | PHENANTHRENE | 400 | BQL |
| 44 | PYRENE | 400 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

2

IEA Sample No. 103132 3

Sample Identification 0754

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/Kg | ug/Kg |
|--------|-------------------------------|-------|-------|
| 1 | ACENAPHTHENE | 1000 | BQL |
| 2 | ACENAPHTHYLENE | 400 | BQL |
| 3 | ANTHRACENE | 400 | BQL |
| 4 | BENZIDINE | 400 | BQL |
| 5 | BENZO (a) ANTHRACENE | 400 | BQL |
| 6 | BENZO (a) PYRENE | 400 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BQL |
| 8 | BENZO (ghi) PERYLENE | 1000 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | 940 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BQL |
| 18 | CHRYSENE | 400 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BQL |
| 24 | DIETHYL PHTHALATE | 400 | BQL |
| 25 | DIMETHYL PHTHALATE | 400 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | BQL |
| 27 | 2,4-DINITROTOLUENE | 400 | BQL |
| 28 | 2,6-DINITROTOLUENE | 400 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 400 | BQL |
| 30 | FLUORANTHENE | 400 | BQL |
| 31 | FLUORENE | 400 | BQL |
| 32 | HEXACHLOROBENZENE | 400 | BQL |
| 33 | HEXACHLOROBUTADIENE | 400 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BQL |
| 35 | HEXACHLOROETHANE | 400 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BQL |
| 37 | ISOPHORONE | 400 | BQL |
| 38 | NAPHTHALENE | 400 | BQL |
| 39 | NITROBENZENE | 400 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BQL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 400 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BQL |
| 43 | PHENANTHRENE | 400 | BQL |
| 44 | PYRENE | 400 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BQL |

IEA REPORT NO. 103-133

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 3

Sample Identification 0660

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> <u>ug/L</u> | <u>Results</u> <u>Concentration</u> <u>ug/L</u> |
|---------------|----------------------------|--|---|
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 4

Sample Identification 0661

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|----------------------------|---------------------------|--|
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 03133 7

Sample Identification 0664

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> <u>ug/l</u> | <u>Results</u> <u>Concentration</u> <u>ug/L</u> |
|---------------|----------------------------|--|---|
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 8

Sample Identification 0665

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| | | | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 9

Sample Identification 0672

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 10

Sample Identification 9070

Date Extracted April 16, 1987

Date Analyzed May 18, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 5

Sample Identification 0680

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 6

Sample Identification 0681

Date Extracted April 16, 1987

Date Analyzed May 14, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 1

Sample Identification 0709

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 2

Sample Identification Q710

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| | | | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 11

Sample Identification 0736

Date Extracted April 17, 1987

Date Analyzed May 14, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> <u>ug/L</u> | <u>Results</u> <u>Concentration</u> <u>ug/L</u> |
|---------------|----------------------------|--|---|
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 12

Sample Identification 0737

Date Extracted April 17, 1987

Date Analyzed May 15, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> <u>ug/L</u> | <u>Results</u> <u>Concentration</u> <u>ug/L</u> |
|---------------|----------------------------|--|---|
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 13

Sample Identification 0740

Date Extracted April 17, 1987

Date Analyzed May 18, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 14

Sample Identification 0741

Date Extracted April 17, 1987

Date Analyzed May 18, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> <u>ug/L</u> | <u>Results</u> <u>Concentration</u> <u>ug/L</u> |
|---------------|----------------------------|--|---|
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 3

Sample Identification 0660

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>µg/L</u> | <u>Concentration</u> <u>µg/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDODULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 4

Sample Identification 0661

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDODULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments
BQL - BELOW QUANTITATION LIMIT
625BN
IEA Sample No. 103133 3
Sample Identification 0660
Date Extracted April 15, 1987
Date Analyzed May 14, 1987
By King
GC/MS Base/Neutral Extractables
Quantitation Limit
Concentration

| <u>Number</u> | <u>Compound</u> | <u>ug/L</u> | <u>ug/L</u> |
|---------------|-------------------------------|-------------|-------------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | 18 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

X-170

Comments

BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103133 4
Date Extracted April 15, 1987Sample Identification 0661
Date Analyzed May 14, 1987
By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| <u>Number</u> | <u>Compound</u> | <u>ug/L</u> | <u>ug/L</u> |
|---------------|-------------------------------|-------------|-------------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLORODETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments
BQL - BELOW QUANTITATION LIMIT
625BN
IEA Sample No. 103133 2
Sample Identification 0664
Date Extracted April 16, 1987
Date Analyzed May 15, 1987
By Griffin
GC/MS Base/Neutral Extractables
Quantitation Limit
Concentration
Number
Compound
ug/L
ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | 34 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 8

Sample Identification 0665

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | 35 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 7

Sample Identification 0664

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDODULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 8

Sample Identification 0665

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|---------------------------|----------------------|
| | | <u>Quantitation Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 9

Sample Identification Q672

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 10

Sample Identification 0673

Date Extracted April 16, 1987

Date Analyzed May 18, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 5

Sample Identification 0680

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDODULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 6

Sample Identification 0681

Date Extracted April 16, 1987

Date Analyzed May 14, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CILORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDODULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 1

Sample Identification 0709

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 2

Sample Identification 0710

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 11

Sample Identification 0736

Date Extracted April 17, 1987

Date Analyzed May 14, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 12

Sample Identification 0737

Date Extracted April 17, 1987

Date Analyzed May 15, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 13

Sample Identification 0740

Date Extracted April 17, 1987

Date Analyzed May 18, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|---------------------------|----------------------|
| | | <u>Quantitation Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDODULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 14

Sample Identification 0741

Date Extracted April 17, 1987

Date Analyzed May 18, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 1
Date Extracted April 15, 1987

Sample Identification 0709
Date Analyzed May 14, 1987
By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| <u>Number</u> | <u>Compound</u> | <u>ug/L</u> | <u>ug/L</u> |
|---------------|--------------------------------|-------------|-------------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLORODISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 2

Sample Identification 0710

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103133 5

Sample Identification 0680

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PERMANENTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 6

Sample Identification 0681

Date Extracted April 16, 1987

Date Analyzed May 14, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| <u>Number</u> | <u>Compound</u> | <u>ug/L</u> | <u>ug/L</u> |
|---------------|-------------------------------|-------------|-------------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLORDISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103133 9

Sample Identification 0672

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

(022)2 2

5-0002 NO. 5

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

ug/L

ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103133 10

Sample Identification 0673

Date Extracted April 16, 1987

Date Analyzed May 18, 1987

By Griffin

GC/MS Base/Neutral Extractables

| Number | Compound | Quantitation Limit | Concentration |
|--------|-------------------------------|--------------------|---------------|
| | | ug/L | ug/L |
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUDRENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 11

Sample Identification 0736

Date Extracted April 17, 1987

Date Analyzed May 14, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 12

Sample Identification 0737

Date Extracted April 17, 1987

Date Analyzed May 15, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103133 13

Sample Identification 0740

Date Extracted April 17, 1987

Date Analyzed May 18, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 14

Sample Identification 0741

Date Extracted April 17, 1987

Date Analyzed May 18, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

IEA REPORT NO.: 103-134

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 5

Sample Identification 0713

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|----------------------------|---------------------------|--|
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 4

Sample Identification 0714

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 2

Sample Identification 0719

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> <u>ug/L</u> | <u>Results</u> <u>Concentration</u> <u>ug/L</u> |
|---------------|----------------------------|--|---|
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 3

Sample Identification Q720

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> <u>ug/L</u> | <u>Results</u> <u>Concentration</u> <u>ug/L</u> |
|---------------|----------------------------|--|---|
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 6

Sample Identification 0723

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> <u>ug/L</u> | <u>Results</u> <u>Concentration</u> <u>ug/L</u> |
|---------------|----------------------------|--|---|
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments: BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 7

Sample Identification 0724

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|----------------------------|---------------------------|--|
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 1

Sample Identification 0732

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103134 5

Sample Identification 0713

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | 26 |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103134 4

Sample Identification 0714

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | 25 |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103134 2

Sample Identification 0719

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103134 3

Sample Identification 0720

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103134 6

Sample Identification 0723

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

| GC/MS Base/Neutral Extractables | | Quantitation Limit | Concentration |
|---------------------------------|-------------------------------|--------------------|---------------|
| Number | Compound | ug/L | ug/L |
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2- DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3- DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4- DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'- DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4- DINITROTOLUENE | 10 | BQL |
| 28 | 2,6- DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO- DI- N- PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4- TRICHLOROBENZENE | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103134 7

Sample Identification 0724

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | 48 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | 38 |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103134 1

Sample Identification 0732

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLORDISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

62SP

GC/MS PCB/Pesticides

IEA Sample No. 103134 5

Sample Identification 0713

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103134 4

Sample Identification 0714

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Leta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDODULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103134 2

Sample Identification 0719

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|---------------------------|----------------------|
| | | <u>Quantitation Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103134 3

Sample Identification 0720

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103134 6

Sample Identification 0723

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|---------------------------|----------------------|
| | | <u>Quantitation Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDODULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

6251

GC/MS PCB/Pesticides

IEA Sample No. 103134 7

Sample Identification 0724

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103134 1

Sample Identification 0732

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1010 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

IEA REPORT NO.: 103-136

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103136 5

Sample Identification 0684

Date Extracted April 23, 1987

Date Analyzed May 20, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|----------------------------|---------------------------|--|
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 100100 2

Sample Identification Q685

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> <u>ug/L</u> | <u>Results</u> <u>Concentration</u> <u>ug/L</u> |
|---------------|----------------------------|--|---|
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

Sample No. 103136 3

Sample Identification 0688

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> <u>ug/L</u> | <u>Results</u> <u>Concentration</u> <u>ug/L</u> |
|---------------|----------------------------|--|---|
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103136 4

Sample Identification 0689

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| | | | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

SEA Sample No. 103136 7

Sample Identification 0692

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103136 8

Sample Identification 0693

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

Sample No. 103136 1

Sample Identification 0696

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103136 2

Sample Identification 0697

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 5 Sample Identification 0684

Date Extracted April 23, 1987 Date Analyzed May 20, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 6
Date Extracted April 23, 1987

Sample Identification 0685
Date Analyzed May 19, 1987
By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

X-228

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 3 Sample Identification 0688

Date Extracted April 23, 1987 Date Analyzed May 18, 1987

By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUDRENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

X-229

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 4

Sample Identification 0689

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments RNI - REFINED QUANTITATION LIMIT

625BN

IEA Sample No. 103136 7

Sample Identification 0692

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | 21 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 8

Sample Identification 0693

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 1

Sample Identification 0696

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 2 Sample Identification 0697
Date Extracted April 23, 1987 Date Analyzed May 18, 1987
By King

| GC/MS Base/Neutral Extractables | | Quantitation Limit | Concentration |
|---------------------------------|-------------------------------|--------------------|---------------|
| Number | Compound | ug/L | ug/L |
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (gm) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 5

Sample Identification 0684

Date Extracted April 23, 1987

Date Analyzed May 20, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>µg/L</u> | <u>Concentration</u> <u>µg/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 6

Sample Identification 0685

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDODULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 3

Sample Identification 0688

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 4

Sample Identification 0689

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 7

Sample Identification 0602

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 8

Sample Identification 0693

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

6L/115 PCB/Pesticides

IEA Sample No. 103136 1

Sample Identification 0696

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 2

Sample Identification 0697

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDODULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

IEA REPORT NO.: 103-137

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137

Sample Identification 0668

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 7

Sample Identification 0669

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 1

Sample Identification 0700

Date Extracted April 28, 1987

Date Analyzed May 28, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 2

Sample Identification 0701

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 3

Sample Identification 0706

Date Extracted April 28, 1987

Date Analyzed May 22, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments: BELOW QUANTITATION LIMIT

625m

Acid Extractables

IEA Sample No. 103137 4

Sample Identification 0707

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-2-METHYL DIFENYL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 10

Sample Identification 0727

Date Extracted April 28, 1987

Date Analyzed May 30, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 11

Sample Identification 0728

Date Extracted April 28, 1987

Date Analyzed May 30, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 25 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 25 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 9

Sample Identification 0733

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 8

Sample Identification 0668

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

ug/L

ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | 25 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | 11 |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 7

Sample Identification 0669

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-ETHYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103137 1

Sample Identification 0700

Date Extracted April 28, 1987

Date Analyzed May 28, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 2

Sample Identification 0701

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | 10 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 3 Sample Identification 0706

Date Extracted April 28, 1987 Date Analyzed May 29, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUDRENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 4 Sample Identification 0707

Date Extracted April 28, 1987 Date Analyzed May 29, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

ug/L

ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | 14 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQ' |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | 18 |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments: BNL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 10

Sample Identification 0727

Date Extracted April 28, 1987

Date Analyzed May 30, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | 43 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | 38 |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 11

Sample Identification 0728

Date Extracted April 28, 1987

Date Analyzed May 30, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-ETHYL) PHTHALATE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 9

Sample Identification 0733

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | 26 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | 20 |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 5 Sample Identification 0735

Date Extracted April 28, 1987 Date Analyzed May 29, 1987

By King

GC/MS Base/Neutral Extractables

| Number | Compound | Quantitation Limit | Concentration |
|--------|-------------------------------|--------------------|---------------|
| | | ug/L | ug/L |
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | 26 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | 20 |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

6256N

IEA Sample No. 103137 6

Sample Identification 0771

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BQL |
| 2 | ACENAPHTHYLENE | 10 | BQL |
| 3 | ANTHRACENE | 10 | BQL |
| 4 | BENZIDINE | 10 | BQL |
| 5 | BENZO (a) ANTHRACENE | 10 | BQL |
| 6 | BENZO (a) PYRENE | 10 | BQL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BQL |
| 8 | BENZO (ghi) PERYLENE | 25 | BQL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BQL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BQL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BQL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BQL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BQL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BQL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BQL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BQL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BQL |
| 18 | CHRYSENE | 10 | BQL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BQL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BQL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BQL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BQL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BQL |
| 24 | DIETHYL PHTHALATE | 10 | BQL |
| 25 | DIMETHYL PHTHALATE | 10 | BQL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BQL |
| 27 | 2,4-DINITROTOLUENE | 10 | BQL |
| 28 | 2,6-DINITROTOLUENE | 10 | BQL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BQL |
| 30 | FLUORANTHENE | 10 | BQL |
| 31 | FLUORENE | 10 | BQL |
| 32 | HEXACHLOROBENZENE | 10 | BQL |
| 33 | HEXACHLOROBUTADIENE | 10 | BQL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BQL |
| 35 | HEXACHLOROETHANE | 10 | BQL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BQL |
| 37 | ISOPHORONE | 10 | BQL |
| 38 | NAPHTHALENE | 10 | BQL |
| 39 | NITROBENZENE | 10 | BQL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BQL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BQL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BQL |
| 43 | PHENANTHRENE | 10 | BQL |
| 44 | PYRENE | 10 | BQL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 8

Sample Identification 0668

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 2

Sample Identification 0669

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TULOSURENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1222 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 1

Sample Identification 0700

Date Extracted April 28, 1987

Date Analyzed May 28, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 2

Sample Identification 0701

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDO | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1118 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 3

Sample Identification 0706

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Griffin

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 4

Sample Identification 0707

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLOROMEL | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 10

Sample Identification 0727

Date Extracted April 28, 1987

Date Analyzed May 30, 1987

By Griffin

| Number | Compound | Quantitation Limit | Results |
|--------|--------------------|--------------------|-----------------------|
| | | ug/L | Concentration ug/L |
| 1 | ALDRIN | 10 | BQL |
| 2 | ALDRIN | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 11

Sample Identification 0728

Date Extracted April 28, 1987

Date Analyzed May 30, 1987

By Griffin

| Number | Compound | Quantitation Limit | Results |
|--------|--------------------|--------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHEN | 10 | BQL |
| 19 | PCB 101 | 10 | BQL |
| 20 | PCB 121 | 10 | BQL |
| 21 | PCB 123 | 10 | BQL |
| 22 | PCB 124 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 9

Sample Identification 0733

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 5

Sample Identification 0735

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|--------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDE | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDODULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 6

Sample Identification 0771

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

| Number | Compound | Quantitation Limit | Results |
|--------|--------------------|--------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BQL |
| 2 | Alpha - BHC | 10 | BQL |
| 3 | Beta - BHC | 10 | BQL |
| 4 | Delta - BHC | 10 | BQL |
| 5 | Gamma - BHC | 10 | BQL |
| 6 | CHLORDANE | 10 | BQL |
| 7 | 4,4'-DDD | 10 | BQL |
| 8 | 4,4'-DDE | 10 | BQL |
| 9 | 4,4'-DDT | 10 | BQL |
| 10 | DIELDRIN | 10 | BQL |
| 11 | ENDOSULFAN I | 10 | BQL |
| 12 | ENDOSULFAN II | 10 | BQL |
| 13 | ENDOSULFAN SULFATE | 10 | BQL |
| 14 | ENDRIN | 10 | BQL |
| 15 | ENDRIN ALDEHYDE | 10 | BQL |
| 16 | HEPTACHLOR | 10 | BQL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BQL |
| 18 | TOXAPHENE | 10 | BQL |
| 19 | PCB 1016 | 10 | BQL |
| 20 | PCB 1221 | 10 | BQL |
| 21 | PCB 1232 | 10 | BQL |
| 22 | PCB 1242 | 10 | BQL |
| 23 | PCB 1248 | 10 | BQL |
| 24 | PCB 1254 | 10 | BQL |
| 25 | PCB 1260 | 10 | BQL |

APPENDIX Y

REPORTED ORGANIC LABORATORY RESULTS

INVALID DATA

Note: Data reported in Appendix Y are regarded as invalid on the basis of exceeded holding times or lack of confirmation by second-column confirmation. Refer to Section 4 of the report (Vol. 1) for additional information.

IEA REPORT DATE: JANUARY 15, 1987

IEA REPORT NO.: 103-105

January 15, 1987
IEA Report No. 103-105

| | | Detection Limit | SB-56 0-2'B | SB-56 3-5'B | SB-56 8-10'B | SB-56 13-15'B | SB-56 15-18'B | SB-57 0-2'B | SB-57 2-4'B |
|------------------|-------|--------------------|----------------|----------------|-----------------|------------------|------------------|----------------|----------------|
| Diethyl Ether | µg/Kg | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Carbon Disulfide | µg/Kg | 100 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| MEK | µg/Kg | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| MIBK | µg/Kg | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Acrylamide | µg/Kg | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Paraldehyde | µg/Kg | 100 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

BDL: Below Detection Limit

January 15, 1987
IEA Report No. 103-105

| | | Detection Limit | SB-57 4-6'B | SB-57 9-11'B | SB-57 11-13'B | SB-55 1-3'B | SB-55 3-5'B | SB-55 9-11'B | SB-55 11-13'B |
|------------------|-------|--------------------|----------------|-----------------|------------------|----------------|----------------|-----------------|------------------|
| Diethyl Ether | µg/Kg | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Carbon Disulfide | µg/Kg | 100 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| MEK | µg/Kg | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| MIBK | µg/Kg | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Acrylamide | µg/Kg | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Paraldehyde | µg/Kg | 100 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

BDL: Below Detection Limit

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 11

Sample Identification SB-55, 1-3' B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BDL |
| 2 | 2-CHLOROPHENOL | 1000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BDL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BDL |
| 7 | 2-NITROPHENOL | 1000 | BDL |
| 8 | 4-NITROPHENOL | 1000 | BDL |
| 9 | PENTACHLOROPHENOL | 1000 | BDL |
| 10 | PHENOL | 1000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 12

Sample Identification SB-55, 3-5' B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BDL |
| 2 | 2-CHLOROPHENOL | 1000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BDL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BDL |
| 7 | 2-NITROPHENOL | 1000 | BDL |
| 8 | 4-NITROPHENOL | 1000 | BDL |
| 9 | PENTACHLOROPHENOL | 1000 | BDL |
| 10 | PHENOL | 1000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 13

Sample Identification SB-55, 9-11'B

Date Extracted November 25, 1986

Date Analyzed January 9, 1987

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BDL |
| 2 | 2-CHLOROPHENOL | 1000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BDL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BDL |
| 7 | 2-NITROPHENOL | 1000 | BDL |
| 8 | 4-NITROPHENOL | 1000 | BDL |
| 9 | PENTACHLOROPHENOL | 1000 | BDL |
| 10 | PHENOL | 1000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 1

Sample Identification SB-56, 0-2'B

Date Extracted November 24, 1986

Date Analyzed January 5, 1987

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 10,000 | BDL |
| 2 | 2-CHLOROPHENOL | 10,000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 10,000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 10,000 | BDL |
| 5 | 2,4-DINITROPHENOL | 100,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 100,000 | BDL |
| 7 | 2-NITROPHENOL | 10,000 | BDL |
| 8 | 4-NITROPHENOL | 10,000 | BDL |
| 9 | PENTACHLOROPHENOL | 10,000 | BDL |
| 10 | PHENOL | 10,000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 10,000 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 7

Sample Identification SB-57, 2-4' B

Date Extracted November 24, 1986

Date Analyzed January 12, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 20,000 | BDL |
| 2 | 2-CHLOROPHENOL | 20,000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 20,000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 20,000 | BDL |
| 5 | 2,4-DINITROPHENOL | 200,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 200,000 | BDL |
| 7 | 2-NITROPHENOL | 20,000 | BDL |
| 8 | 4-NITROPHENOL | 20,000 | BDL |
| 9 | PENTACHLOROPHENOL | 20,000 | BDL |
| 10 | PHENOL | 20,000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 20,000 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 8

Sample Identification SB-57, 4-6' B

Date Extracted November 24, 1986

Date Analyzed January 5, 1987

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BDL |
| 2 | 2-CHLOROPHENOL | 1000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BDL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BDL |
| 7 | 2-NITROPHENOL | 1000 | BDL |
| 8 | 4-NITROPHENOL | 1000 | BDL |
| 9 | PENTACHLOROPHENOL | 1000 | BDL |
| 10 | PHENOL | 1000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 9

Sample Identification SB-57, 9-11'B

Date Extracted November 25, 1986

Date Analyzed January 5, 1987

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BDL |
| 2 | 2-CHLOROPHENOL | 1000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BDL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BDL |
| 7 | 2-NITROPHENOL | 1000 | BDL |
| 8 | 4-NITROPHENOL | 1000 | BDL |
| 9 | PENTACHLOROPHENOL | 1000 | BDL |
| 10 | PHENOL | 1000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 10

Sample Identification SB-57, 11-13'B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 1000 | BDL |
| 2 | 2-CHLOROPHENOL | 1000 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 1000 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 1000 | BDL |
| 5 | 2,4-DINITROPHENOL | 10,000 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 10,000 | BDL |
| 7 | 2-NITROPHENOL | 1000 | BDL |
| 8 | 4-NITROPHENOL | 1000 | BDL |
| 9 | PENTACHLOROPHENOL | 1000 | BDL |
| 10 | PHENOL | 1000 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 1000 | BDL |

| | | | |
|------------|-----------------------------|-----------------|---------------|
| Comments | BDL - BELOW DETECTION LIMIT | | |
| | Method 8020. | | |
| <u>602</u> | | Detection Limit | Concentration |
| | Xylenes | 1.0 | 26 |

Purgeable Aromatics

IEA Sample No. 103105 12
 Sample Identification SB-55, 3-5'B
 Date Analyzed November 20, 1986 By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | 18 |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

BDL

| | Detection Limit | Concentration |
|---------|-----------------|---------------|
| Xylenes | 1.0 | BDL |

Purgeable Aromatics

IEA Sample No. 103105 13

Sample Identification SB-55, 9-11' B

Date Analyzed November 20, 1986

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | 2.0 |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

602

Detection Limit

Concentration

Xylenes

1.0

BDL

Purgeable Aromatics

IEA Sample No. 103105 6

Sample Identification SB-57, 0-2' B

Date Analyzed November 19, 1986

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | 1.8 |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 1

Sample Identification SB-56, 0-2'B

Date Extracted November 24, 1986

Date Analyzed January 5, 1987

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | ALDRIN | 4000 | BDL |
| 2 | Alpha - BHC | 4000 | BDL |
| 3 | Beta - BHC | 4000 | BDL |
| 4 | Delta - BHC | 4000 | BDL |
| 5 | Gamma - BHC | 4000 | BDL |
| 6 | CHLORDANE | 4000 | BDL |
| 7 | 4,4 - DDD | 4000 | BDL |
| 8 | 4,4' - DDE | 4000 | BDL |
| 9 | 4,4' - DDT | 4000 | BDL |
| 10 | DIELDRIN | 4000 | BDL |
| 11 | ENDOSULFAN I | 4000 | BDL |
| 12 | ENDOSULFAN II | 4000 | BDL |
| 13 | ENDOSULFAN SULFATE | 4000 | BDL |
| 14 | ENDRIN | 4000 | BDL |
| 15 | ENDRIN ALDEHYDE | 4000 | BDL |
| 16 | HEPTACHLOR | 4000 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 4000 | BDL |
| 18 | TOXAPHENE | 4000 | BDL |
| 19 | PCB 1016 | 4000 | BDL |
| 20 | PCB 1221 | 4000 | BDL |
| 21 | PCB 1232 | 4000 | BDL |
| 22 | PCB 1242 | 4000 | BDL |
| 23 | PCB 1248 | 4000 | BDL |
| 24 | PCB 1254 | 4000 | BDL |
| 25 | PCB 1260 | 4000 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 11

Sample Identification SB-55, 1-3'B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

| Number | Compound | Results | |
|--------|--------------------|-----------------|---------------|
| | | Detection Limit | Concentration |
| | | ug/Kg | ug/Kg |
| 1 | ALDRIN | 400 | BDL |
| 2 | Alpha - BHC | 400 | BDL |
| 3 | Beta - BHC | 400 | BDL |
| 4 | Delta - BHC | 400 | BDL |
| 5 | Gamma - BHC | 400 | BDL |
| 6 | CHLORDANE | 400 | BDL |
| 7 | 4,4'-DDD | 400 | BDL |
| 8 | 4,4'-DDE | 400 | BDL |
| 9 | 4,4'-DDT | 400 | BDL |
| 10 | DIELDRIN | 400 | BDL |
| 11 | ENDOSULFAN I | 400 | BDL |
| 12 | ENDOSULFAN II | 400 | BDL |
| 13 | ENDOSULFAN SULFATE | 400 | BDL |
| 14 | ENDRIN | 400 | BDL |
| 15 | ENDRIN ALDEHYDE | 400 | BDL |
| 16 | HEPTACHLOR | 400 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BDL |
| 18 | TOXAPHENE | 400 | BDL |
| 19 | PCB 1016 | 400 | BDL |
| 20 | PCB 1221 | 400 | BDL |
| 21 | PCB 1232 | 400 | BDL |
| 22 | PCB 1242 | 400 | BDL |
| 23 | PCB 1248 | 400 | BDL |
| 24 | PCB 1254 | 400 | BDL |
| 25 | PCB 1260 | 400 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 12

Sample Identification SB-55, 3-5' B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | ALDRIN | 400 | BDL |
| 2 | Alpha - BHC | 400 | BDL |
| 3 | Beta - BHC | 400 | BDL |
| 4 | Delta - BHC | 400 | BDL |
| 5 | Gamma - BHC | 400 | BDL |
| 6 | CHLORDANE | 400 | BDL |
| 7 | 4,4'-DDD | 400 | BDL |
| 8 | 4,4'-DDE | 400 | BDL |
| 9 | 4,4'-DDT | 400 | BDL |
| 10 | DIELDRIN | 400 | BDL |
| 11 | ENDOSULFAN I | 400 | BDL |
| 12 | ENDOSULFAN II | 400 | BDL |
| 13 | ENDOSULFAN SULFATE | 400 | BDL |
| 14 | ENDRIN | 400 | BDL |
| 15 | ENDRIN ALDEHYDE | 400 | BDL |
| 16 | HEPTACHLOR | 400 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BDL |
| 18 | TOXAPHENE | 400 | BDL |
| 19 | PCB 1016 | 400 | BDL |
| 20 | PCB 1221 | 400 | BDL |
| 21 | PCB 1232 | 400 | BDL |
| 22 | PCB 1242 | 400 | BDL |
| 23 | PCB 1248 | 400 | BDL |
| 24 | PCB 1254 | 400 | BDL |
| 25 | PCB 1260 | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 13

Sample Identification SB-55, 9-11'B

Date Extracted November 25, 1986

Date Analyzed January 9, 1987

By Harris

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | ALDRIN | 400 | BDL |
| 2 | Alpha - BHC | 400 | BDL |
| 3 | Beta - BHC | 400 | BDL |
| 4 | Delta - BHC | 400 | BDL |
| 5 | Gamma - BHC | 400 | BDL |
| 6 | CHLORDANE | 400 | BDL |
| 7 | 4,4'-DDD | 400 | BDL |
| 8 | 4,4'-DDE | 400 | BDL |
| 9 | 4,4'-DDT | 400 | BDL |
| 10 | DIELDRIN | 400 | BDL |
| 11 | ENDOSULFAN I | 400 | BDL |
| 12 | ENDOSULFAN II | 400 | BDL |
| 13 | ENDOSULFAN SULFATE | 400 | BDL |
| 14 | ENDRIN | 400 | BDL |
| 15 | ENDRIN ALDEHYDE | 400 | BDL |
| 16 | HEPTACHLOR | 400 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 400 | BDL |
| 18 | TOXAPHENE | 400 | BDL |
| 19 | PCB 1016 | 400 | BDL |
| 20 | PCB 1221 | 400 | BDL |
| 21 | PCB 1232 | 400 | BDL |
| 22 | PCB 1242 | 400 | BDL |
| 23 | PCB 1248 | 400 | BDL |
| 24 | PCB 1254 | 400 | BDL |
| 25 | PCB 1260 | 400 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 11

Sample Identification SB-55, 1-3 B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

GS/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/Kg

ug/Kg

| | | | |
|----|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 1000 | BDL |
| 2 | ACENAPHTHYLENE | 400 | BDL |
| 3 | ANTHRACENE | 400 | BDL |
| 4 | BENZIDINE | 400 | BDL |
| 5 | BENZO (a) ANTHRACENE | 400 | BDL |
| 6 | BENZO (a) PYRENE | 400 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BDL |
| 8 | BENZO (ghi) PERYLENE | 1000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | 1000 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BDL |
| 18 | CHRYSENE | 400 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BDL |
| 24 | DIETHYL PHTHALATE | 400 | BDL |
| 25 | DIMETHYL PHTHALATE | 400 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | BDL |
| 27 | 2,4-DINITROTOLUENE | 400 | BDL |
| 28 | 2,6-DINITROTOLUENE | 400 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 400 | BDL |
| 30 | FLUORANTHENE | 400 | BDL |
| 31 | FLUORENE | 400 | BDL |
| 32 | HEXACHLOROBENZENE | 400 | BDL |
| 33 | HEXACHLOROBUTADIENE | 400 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BDL |
| 35 | HEXACHLOROETHANE | 400 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BDL |
| 37 | ISOPHORONE | 400 | BDL |
| 38 | NAPHTHALENE | 400 | BDL |
| 39 | NITROBENZENE | 400 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 400 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BDL |
| 43 | PHENANTHRENE | 400 | BDL |
| 44 | PYRENE | 400 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

6258N

IEA Sample No. 103105 12

Sample Identification SB-55, 3-5' B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

GS/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/Kg

ug/Kg

| | | | |
|----|-------------------------------|------|-----|
| 1 | ACENAPHTHENE | 1000 | BDL |
| 2 | ACENAPHTHYLENE | 400 | BDL |
| 3 | ANTHRACENE | 400 | BDL |
| 4 | BENZIDINE | 400 | BDL |
| 5 | BENZO (a) ANTHRACENE | 400 | BDL |
| 6 | BENZO (a) PYRENE | 400 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BDL |
| 8 | BENZO (ghi) PERYLENE | 1000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BDL |
| 18 | CHRYSENE | 400 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BDL |
| 24 | DIETHYL PHTHALATE | 400 | BDL |
| 25 | DIMETHYL PHTHALATE | 400 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | 420 |
| 27 | 2,4-DINITROTOLUENE | 400 | BDL |
| 28 | 2,6-DINITROTOLUENE | 400 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 400 | BDL |
| 30 | FLUORANTHENE | 400 | BDL |
| 31 | FLUORENE | 400 | BDL |
| 32 | HEXACHLOROBENZENE | 400 | BDL |
| 33 | HEXACHLOROBUTADIENE | 400 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BDL |
| 35 | HEXACHLOROETHANE | 400 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BDL |
| 37 | ISOPHORONE | 400 | BDL |
| 38 | NAPHTHALENE | 400 | BDL |
| 39 | NITROBENZENE | 400 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 400 | BDL |
| 42 | N-NITROSO-PHENYLAMINE | 400 | BDL |
| 43 | PHENANTHRENE | 400 | BDL |
| 44 | PYRENE | 400 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 13 Sample Identification 98-55, 9-11 B

Date Extracted November 25, 1986 Date Analyzed January 9, 1987

By Harris

| GS/MS Base/Neutral Extractables | | Detection Limit | Concentration |
|---------------------------------|-------------------------------|-----------------|---------------|
| Number | Compound | ug/Kg | ug/Kg |
| 1 | ACENAPHTHENE | 1000 | BDL |
| 2 | ACENAPHTHYLENE | 400 | BDL |
| 3 | ANTHRACENE | 400 | BDL |
| 4 | BENZIDINE | 400 | BDL |
| 5 | BENZO (a) ANTHRACENE | 400 | BDL |
| 6 | BENZO (a) PYRENE | 400 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BDL |
| 8 | BENZO (ghi) PERYLENE | 1000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BDL |
| 18 | CHRYSENE | 400 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BDL |
| 24 | DIETHYL PHTHALATE | 400 | BDL |
| 25 | DIMETHYL PHTHALATE | 400 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | BDL |
| 27 | 2,4-DINITROTOLUENE | 400 | BDL |
| 28 | 2,6-DINITROTOLUENE | 400 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 400 | BDL |
| 30 | FLUORANTHENE | 400 | BDL |
| 31 | FLUORENE | 400 | BDL |
| 32 | HEXACHLOROBENZENE | 400 | BDL |
| 33 | HEXACHLOROBUTADIENE | 400 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BDL |
| 35 | HEXACHLOROETHANE | 400 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BDL |
| 37 | ISOPHORONE | 400 | BDL |
| 38 | NAPHTHALENE | 400 | BDL |
| 39 | NITROBENZENE | 400 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 400 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BDL |
| 43 | PHENANTHRENE | 400 | BDL |
| 44 | PYRENE | 400 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 14 Sample Identification 98-55,11-13'6

Date Extracted November 25, 1986 Date Analyzed January 8, 1987

By King

GS/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/Kg | ug/Kg |
| 1 | ACENAPHTHENE | 1000 | BDL |
| 2 | ACENAPHTHYLENE | 400 | BDL |
| 3 | ANTHRACENE | 400 | BDL |
| 4 | BENZIDINE | 400 | BDL |
| 5 | BENZO (a) ANTHRACENE | 400 | BDL |
| 6 | BENZO (a) PYRENE | 400 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BDL |
| 8 | BENZO (ghi) PERYLENE | 1000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | 440 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BDL |
| 18 | CHRYSENE | 400 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BDL |
| 24 | DIETHYL PHTHALATE | 400 | BDL |
| 25 | DIMETHYL PHTHALATE | 400 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | 1300 |
| 27 | 2,4-DINITROTOLUENE | 400 | BDL |
| 28 | 2,6-DINITROTOLUENE | 400 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 400 | BDL |
| 30 | FLUORANTHENE | 400 | BDL |
| 31 | FLUORENE | 400 | BDL |
| 32 | HEXACHLOROBENZENE | 400 | BDL |
| 33 | HEXACHLOROBUTADIENE | 400 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BDL |
| 35 | HEXACHLOROETHANE | 400 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BDL |
| 37 | ISOPHORONE | 400 | BDL |
| 38 | NAPHTHALENE | 400 | BDL |
| 39 | NITROBENZENE | 400 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 400 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BDL |
| 43 | PHENANTHRENE | 400 | BDL |
| 44 | PYRENE | 400 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 1

Sample Identification SB-56, 0-2 B

Date Extracted November 24, 1986

Date Analyzed January 5, 1987

By Harris

GS/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/Kg | ug/Kg |
| 1 | ACENAPHTHENE | 10,000 | BDL |
| 2 | ACENAPHTHYLENE | 4000 | BDL |
| 3 | ANTHRACENE | 4000 | BDL |
| 4 | BENZIDINE | 4000 | BDL |
| 5 | BENZO (a) ANTHRACENE | 4000 | BDL |
| 6 | BENZO (a) PYRENE | 4000 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 4000 | BDL |
| 8 | BENZO (ghi) PERYLENE | 10,000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 4000 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 4000 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 4000 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 4000 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 4000 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 4000 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 4000 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 4000 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 4000 | BDL |
| 18 | CHRYSENE | 4000 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 4000 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 4000 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 4000 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 4000 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 4000 | BDL |
| 24 | DIETHYL PHTHALATE | 4000 | BDL |
| 25 | DIMETHYL PHTHALATE | 4000 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 4000 | BDL |
| 27 | 2,4-DINITROTOLUENE | 4000 | BDL |
| 28 | 2,6-DINITROTOLUENE | 4000 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 4000 | BDL |
| 30 | FLUORANTHENE | 4000 | BDL |
| 31 | FLUORENE | 4000 | BDL |
| 32 | HEXACHLOROBENZENE | 4000 | BDL |
| 33 | HEXACHLOROBUTADIENE | 4000 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 4000 | BDL |
| 35 | HEXACHLOROETHANE | 4000 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 10,000 | BDL |
| 37 | ISOPHORONE | 4000 | BDL |
| 38 | NAPHTHALENE | 4000 | BDL |
| 39 | NITROBENZENE | 4000 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 4000 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 4000 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 4000 | BDL |
| 43 | PHENANTHRENE | 4000 | BDL |
| 44 | PYRENE | 4000 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 4000 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 7 Sample Identification 98-57, 2-4 B

Date Extracted November 24, 1986 Date Analyzed January 12, 1987

By Daniels

GS/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/Kg | ug/Kg |
| 1 | ACENAPHTHENE | 20,000 | BDL |
| 2 | ACENAPHTHYLENE | 8000 | BDL |
| 3 | ANTHRACENE | 8000 | BDL |
| 4 | BENZIDINE | 8000 | BDL |
| 5 | BENZO (a) ANTHRACENE | 8000 | BDL |
| 6 | BENZO (a) PYRENE | 8000 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 8000 | BDL |
| 8 | BENZO (ghi) PERYLENE | 20,000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 8000 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 8000 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 8000 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 8000 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 8000 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 8000 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 8000 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 8000 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 8000 | BDL |
| 18 | CHRYSENE | 8000 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 8000 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 8000 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 8000 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 8000 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 8000 | BDL |
| 24 | DIETHYL PHTHALATE | 8000 | BDL |
| 25 | DIMETHYL PHTHALATE | 8000 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 8000 | BDL |
| 27 | 2,4-DINITROTOLUENE | 8000 | BDL |
| 28 | 2,6-DINITROTOLUENE | 8000 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 8000 | BDL |
| 30 | FLUORANTHENE | 8000 | 11,000 |
| 31 | FLUORENE | 8000 | BDL |
| 32 | HEXACHLOROBENZENE | 8000 | BDL |
| 33 | HEXACHLOROBUTADIENE | 8000 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 8000 | BDL |
| 35 | HEXACHLOROETHANE | 8000 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 20,000 | BDL |
| 37 | ISOPHORONE | 8000 | BDL |
| 38 | NAPHTHALENE | 8000 | BDL |
| 39 | NITROBENZENE | 8000 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 8000 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 8000 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 8000 | BDL |
| 43 | PHENANTHRENE | 8000 | BDL |
| 44 | PYRENE | 8000 | 10,000 |
| 45 | 1,2,4-TRICHLOROBENZENE | 8000 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 8

Sample Identification SB-57, 4-6 B

Date Extracted November 24, 1986

Date Analyzed January 5, 1987

By Harris

GS/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/Kg

ug/Kg

| | | | |
|----|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 1000 | BDL |
| 2 | ACENAPHTHYLENE | 400 | BDL |
| 3 | ANTHRACENE | 400 | BDL |
| 4 | BENZIDINE | 400 | BDL |
| 5 | BENZO (a) ANTHRACENE | 400 | BDL |
| 6 | BENZO (a) PYRENE | 400 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BDL |
| 8 | BENZO (ghi) PERYLENE | 1000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | 1500 |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BDL |
| 18 | CHRYSENE | 400 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BDL |
| 24 | DIETHYL PHTHALATE | 400 | BDL |
| 25 | DIMETHYL PHTHALATE | 400 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | 1500 |
| 27 | 2,4-DINITROTOLUENE | 400 | BDL |
| 28 | 2,6-DINITROTOLUENE | 400 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 400 | BDL |
| 30 | FLUORANTHENE | 400 | BDL |
| 31 | FLUORENE | 400 | BDL |
| 32 | HEXACHLOROBENZENE | 400 | BDL |
| 33 | HEXACHLOROBUTADIENE | 400 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BDL |
| 35 | HEXACHLOROETHANE | 400 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BDL |
| 37 | ISOPHORONE | 400 | BDL |
| 38 | NAPHTHALENE | 400 | BDL |
| 39 | NITROBENZENE | 400 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 400 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BDL |
| 43 | PHENANTHRENE | 400 | BDL |
| 44 | PYRENE | 400 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 9 Sample Identification SB-37, 9-1116

Date Extracted November 25, 1986 Date Analyzed January 5, 1987

By Harris

GS/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/Kg | ug/Kg |
| 1 | ACENAPHTHENE | 1000 | BDL |
| 2 | ACENAPHTHYLENE | 400 | BDL |
| 3 | ANTHRACENE | 400 | BDL |
| 4 | BENZIDINE | 400 | BDL |
| 5 | BENZO (a) ANTHRACENE | 400 | BDL |
| 6 | BENZO (a) PYRENE | 400 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BDL |
| 8 | BENZO (ghi) PERYLENE | 1000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BDL |
| 18 | CHRYSENE | 400 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BDL |
| 24 | DIETHYL PHTHALATE | 400 | BDL |
| 25 | DIMETHYL PHTHALATE | 400 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | BDL |
| 27 | 2,4-DINITROTOLUENE | 400 | BDL |
| 28 | 2,6-DINITROTOLUENE | 400 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 400 | BDL |
| 30 | FLUORANTHENE | 400 | BDL |
| 31 | FLUORENE | 400 | BDL |
| 32 | HEXACHLOROBENZENE | 400 | BDL |
| 33 | HEXACHLOROBUTADIENE | 400 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BDL |
| 35 | HEXACHLOROETHANE | 400 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BDL |
| 37 | ISOPHORONE | 400 | BDL |
| 38 | NAPHTHALENE | 400 | BDL |
| 39 | NITROBENZENE | 400 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 400 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BDL |
| 43 | PHENANTHRENE | 400 | BDL |
| 44 | PYRENE | 400 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 10 Sample Identification SB-57, 11-13 B

Date Extracted November 25, 1986 Date Analyzed January 8, 1987

By King

GS/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/Kg | ug/Kg |
| 1 | ACENAPHTHENE | 1000 | BDL |
| 2 | ACENAPHTHYLENE | 400 | BDL |
| 3 | ANTHRACENE | 400 | BDL |
| 4 | BENZIDINE | 400 | BDL |
| 5 | BENZO (a) ANTHRACENE | 400 | BDL |
| 6 | BENZO (a) PYRENE | 400 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 400 | BDL |
| 8 | BENZO (ghi) PERYLENE | 1000 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 400 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 400 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 400 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 400 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 400 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 400 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 400 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 400 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 400 | BDL |
| 18 | CHRYSENE | 400 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 400 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 400 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 400 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 400 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 400 | BDL |
| 24 | DIETHYL PHTHALATE | 400 | BDL |
| 25 | DIMETHYL PHTHALATE | 400 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 400 | 530 |
| 27 | 2,4-DINITROTOLUENE | 400 | BDL |
| 28 | 2,6-DINITROTOLUENE | 400 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 400 | BDL |
| 30 | FLUORANTHENE | 400 | BDL |
| 31 | FLUORENE | 400 | BDL |
| 32 | HEXACHLOROBENZENE | 400 | BDL |
| 33 | HEXACHLOROBUTADIENE | 400 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 400 | BDL |
| 35 | HEXACHLOROETHANE | 400 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 1000 | BDL |
| 37 | ISOPHORONE | 400 | BDL |
| 38 | NAPHTHALENE | 400 | BDL |
| 39 | NITROBENZENE | 400 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 400 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 400 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 400 | BDL |
| 43 | PHENANTHRENE | 400 | BDL |
| 44 | PYRENE | 400 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 400 | BDL |

IEA REPORT DATE: JANUARY 26, 1987

IEA REPORT NO.: 103-107
103-108
103-109
103-110



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 26, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-107

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on thirteen samples submitted to our laboratory on January 9, 1987.

| | | <u>Tag</u> <u>0091</u> | <u>Tag</u> <u>0097</u> | <u>Tag</u> <u>0111</u> |
|--------------|------|---------------------------|---------------------------|---------------------------|
| Petroleum | | | | |
| Hydrocarbons | mg/L | <2.0 | <2.0 | <2.0 |

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.


Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

JAN 27 1987

HYDROCECLOGY & ENVIRONMENTAL

Y-29

Offices and laboratories located in:
Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments: BCL - BELOW DETECTION LIMIT

625H

Acid Extractables

IEA Sample No. 103107 7

Sample Identification 0103

Date Extracted January 16, 1967

Date Analyzed January 19, 1967

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/g</u> | <u>ug/g</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 15 | BCL |
| 2 | 2-CHLOROPHENOL | 15 | BCL |
| 3 | 2,4-DICHLOROPHENOL | 15 | BCL |
| 4 | 2,4-DIMETHYLPHENOL | 15 | BCL |
| 5 | 2,4-DINITROPHENOL | 15 | BCL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 150 | BCL |
| 7 | 2-NITROPHENOL | 15 | BCL |
| 8 | 4-NITROPHENOL | 15 | BCL |
| 9 | PENTACHLOROPHENOL | 15 | BCL |
| 10 | PHENOL | 15 | BCL |
| 11 | 2,4,6-TRICHLOROPHENOL | 15 | BCL |

Comments: BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103107 12

Sample Identification 0113

Date Extracted January 16, 1967

Date Analyzed January 19, 1967

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/g</u> | <u>ug/g</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 15 | BDL |
| 2 | 2-CHLOROPHENOL | 15 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 15 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 15 | BDL |
| 5 | 2,4-DINITROPHENOL | 15 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 15 | BDL |
| 8 | 4-NITROPHENOL | 15 | BDL |
| 9 | PENTACHLOROPHENOL | 15 | BDL |
| 10 | PHENOL | 15 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 15 | BDL |

Comments: BDL - BELOW DETECTION LIMIT

BDL

Purgeable Aromatics

IEA Sample No. 103107 1

Sample Identification Tag 0080

Date Analyzed January 16, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 10 | BDL |
| 2 | Chlorobenzene | 10 | BDL |
| 3 | 1,2-Dichlorobenzene | 10 | BDL |
| 4 | 1,3-Dichlorobenzene | 10 | BDL |
| 5 | 1,4-Dichlorobenzene | 10 | BDL |
| 6 | Ethylbenzene | 10 | BDL |
| 7 | Toluene | 10 | BDL |

Comments: BDL - BELOW DETECTION LIMIT

BDL

Purgeable Aromatics

IEA Sample No. 103107 4

Sample Identification Tag 0093

Date Analyzed January 16, 1967

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ppb/L</u> | <u>ppb/L</u> |
| 1 | Benzene | 10 | BDL |
| 2 | Chlorobenzene | 10 | BDL |
| 3 | 1,2-Dichlorobenzene | 10 | BDL |
| 4 | 1,3-Dichlorobenzene | 10 | BDL |
| 5 | 1,4-Dichlorobenzene | 10 | BDL |
| 6 | Ethylbenzene | 10 | BDL |
| 7 | Toluene | 10 | BDL |

Comments: BDL - BELOW DETECTION LIMIT

BDL

Purgeable Aromatics

IEA Sample No. 103107 9

Sample Identification Tag 0107

Date Analyzed January 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | Benzene | 10 | BDL |
| 2 | Chlorobenzene | 10 | BDL |
| 3 | 1,2-Dichlorobenzene | 10 | BDL |
| 4 | 1,3-Dichlorobenzene | 10 | BDL |
| 5 | 1,4-Dichlorobenzene | 10 | BDL |
| 6 | Ethylbenzene | 10 | BDL |
| 7 | Toluene | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103107 8

Sample Identification 0104

Date Extracted January 16, 1987

Date Analyzed January 19, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDODULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103107 13

Sample Identification 0114

Date Extracted January 16, 1987

Date Analyzed January 19, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103107 8

Sample Identification 0104

Date Extracted January 16, 1987

Date Analyzed January 19, 1987

By Daniels

GS/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/L | ug/L |
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103107 13

Sample Identification 0114

Date Extracted January 16, 1987

Date Analyzed January 15, 1987

By Daniels

GS/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/L | ug/L |
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

January 26, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-108

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on fourteen samples submitted to our laboratory on January 9, 1987.

| | | <u>Tag</u> <u>0121</u> | <u>Tag</u> [*] <u>0127</u> | <u>Tag</u> [*] <u>0133</u> | <u>Tag</u> [*] <u>0139</u> |
|--------------|------|---------------------------|--|--|--|
| Petroleum | | | | | |
| Hydrocarbons | mg/L | <2.0 | <2.0 | <2.0 | <2.0 |

Please see the enclosed reports for the remainder of your results.

* Invalid Data

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph L. Adamovic
Senior Chemist

JBA/jcl

Y-39

Offices and laboratories located in
Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103108 13

Sample Identification 0141

Date Extracted January 17, 1987

Date Analyzed January 19, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103108 1

Sample Identification Tag 0117

Date Analyzed January 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103108 4

Sample Identification Tag 0123

Date Analyzed January 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | 8.6 |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | 2.3 |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103108 7

Sample Identification Tag 0127

Date Analyzed January 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

FILE COPY

Comments: BDL - BELOW DETECTION LIMIT

ADD: REVISED

Purgeable Aromatics

IEA Sample No. 103108 7

Sample Identification Tag 0129

Date Analyzed January 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

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FEB 11 1987

HYDROGEOLOGY DEPARTMENT

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103108 5

Sample Identification Tag 0124

Date Analyzed January 16, 1987

By Cornwell

| Number | Compound | Detection Limit | Results |
|--------|---------------------------|-----------------|-----------------------|
| | | ug/L | Concentration ug/L |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | 8.6 |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103108 14Sample Identification 0142Date Extracted January 17, 1987Date Analyzed January 19, 1987By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDODULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103108 14

Sample Identification 0142

Date Extracted January 17, 1987

Date Analyzed January 19, 1987

By Daniels

GS/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/L

ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLORDETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

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Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 26, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-109

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 9, 1987.

| | | <u>Tag</u> <u>0149</u> | <u>Tag</u> <u>0159</u> |
|--------------|------|---------------------------|---------------------------|
| Petroleum | | | |
| Hydrocarbons | mg/L | <2.0 | <2.0 |

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

A handwritten signature in cursive script, reading "Joseph B. Adamovic".

Joseph B. Adamovic
Senior Chemist

JBA/jcl

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JAN 27 1987

HYDROGEOLOGY DEPARTMENT

Offices and laboratories located in: Y-48
Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103109 4

Sample Identification 0151

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103109 9

Sample Identification 0161

Date Extracted January 17, 1987

Date Analyzed January 20, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|----------------------------|------------------------|--|
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103109 1

Sample Identification Tag 0145

Date Analyzed January 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103109 6

Sample Identification Tag 0155

Date Analyzed January 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103109 2

Sample Identification Tag 0146

Date Analyzed January 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 7.8 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103109 7

Sample Identification Tag 0156

Date Analyzed January 16, 1987

By Cornwell

| Number | Compound | Detection Limit | Results |
|--------|---------------------------|-----------------|-----------------------|
| | | ug/L | Concentration ug/L |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | 7.6 |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | 1.3 |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103109 5

Sample Identification 0152

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103109 10

Sample Identification 0162

Date Extracted January 17, 1987

Date Analyzed January 20, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

6258N

IEA Sample No. 103109 5

Sample Identification 0152

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

GS/MS Base/Neutrol Extractables

Detection Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103109 10

Sample Identification 0162

Date Extracted January 17, 1987

Date Analyzed January 20, 1987

By King

GS/MS Base/Neutral Extractables

Detection Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 26, 1987

Mr. Joe Alexander
Research Triangle Institute
P. O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-110

Dear Mr. Alexander:


Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 9, 1987.

| | | <u>Tag</u> <u>0169</u> | <u>Tag</u> <u>0321</u> |
|--------------|------|---------------------------|---------------------------|
| Petroleum | | | |
| Hydrocarbons | mg/L | <2.0 | <2.0 |

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.


Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

JAN 27 1987

HYDROCARBON ANALYSIS

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103110 4

Sample Identification 0171

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103110 9

Sample Identification 0227

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103110 1

Sample Identification Tag 0165

Date Analyzed January 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | 1.6 |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103110 6

Sample Identification Tag 0235

Date Analyzed January 20, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | 1.5 |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103110 2

Sample Identification Tag 0166

Date Analyzed January 16, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 1.2 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethane | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103110 7

Sample Identification Tag 0226

Date Analyzed January 20, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 3.2 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | 1.4 |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103110 5

Sample Identification 0172

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDODULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103110 10

Sample Identification 0228

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments SDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103110 5

Sample Identification 0172

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

GS/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/L

ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103110 10

Sample Identification 0228

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

GS/MS Base/Neutral Extractables

Number

Compound

Detection Limit

ug/L

Concentration

ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

IEA REPORT DATE: JANUARY 29, 1987

IEA REPORT NO.: 103-111
103-112



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 29, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-111

Dear Mr. Alexander:


Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 14, 1987.

| | | <u>Tag</u> <u>0206</u> | <u>Tag</u> <u>0210</u> |
|-------------|------|---------------------------|---------------------------|
| Petroleum | | | |
| Hydrocarbon | mg/L | <2.0 | <2.0 |

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.


Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 2 1987

HYDROGEOLOGY DEPARTMENT

Offices and laboratories located in: Y-71
Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103111 5

Sample Identification 0204

Date Extracted January 22, 1987

Date Analyzed January 27, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|----------------------------|------------------------|--|
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103111 10

Sample Identification 0214

Date Extracted January 22, 1987

Date Analyzed January 27, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|----------------------------|------------------------|--|
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103111 1

Sample Identification Tag D196

Date Analyzed January 20, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103111 6

Sample Identification Tag 0207

Date Analyzed January 20, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103111 2

Sample Identification Tag 0197

Date Analyzed January 20, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601**Purgeable Halocarbons**IEA Sample No. 103111 7Sample Identification Tag 0208Date Analyzed January 20, 1987By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 1.1 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103111 4

Sample Identification 0203

Date Extracted January 22, 1987

Date Analyzed January 27, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103111 9

Sample Identification 0212

Date Extracted January 22, 1987

Date Analyzed January 27, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1015 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

6258N

IEA Sample No. 103111 4

Sample Identification 0203

Date Extracted January 22, 1987

Date Analyzed January 27, 1987

By Daniels

GS/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/L

ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103111 9

Sample Identification 0212

Date Extracted January 22, 1987

Date Analyzed January 27, 1987

By Daniels

GS/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/L

ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLOROMAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUDRENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSDIMETHYLAMINE | 10 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSDIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 29, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-112

Dear Mr. Alexander:

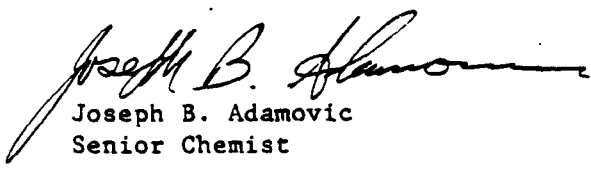
Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 14, 1987.

| | | <u>Tag</u> <u>0220</u> | <u>Tag</u> <u>0233</u> |
|-------------|------|---------------------------|---------------------------|
| Petroleum | | | |
| Hydrocarbon | mg/L | <2.0 | <2.0 |

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.


Joseph B. Adamovic
Senior Chemist

JBA/jcl

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FEB 2 1987

HYDROGEOLOGY DEPARTMENT

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103112 5

Sample Identification 0223

Date Extracted January 22, 1987

Date Analyzed January 28, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103112 10

Sample Identification 0237

Date Extracted January 22, 1987

Date Analyzed January 28, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| | | | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103112 1

Sample Identification Tag 0213

Date Analyzed January 20, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103112 6

Sample Identification Tag 0229

Date Analyzed January 20, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601**Purgeable Halocarbons**IEA Sample No. 103112 2Sample Identification Tag 0217Date Analyzed January 20, 1987By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103112 7

Sample Identification Tag 0230

Date Analyzed January 20, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103112 4

Sample Identification 0222

Date Extracted January 22, 1987

Date Analyzed January 28, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103112 9

Sample Identification 0236

Date Extracted January 22, 1987

Date Analyzed January 28, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103112 4

Sample Identification 0222

Date Extracted January 22, 1987

Date Analyzed January 28, 1987

By King

GS/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/L

ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | SENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSDIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

6258N

IEA Sample No. 103112 9

Sample Identification 0236

Date Extracted January 22, 1987

Date Analyzed January 28, 1987

By King

GS/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/L | ug/L |
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

IEA REPORT DATE: FEBRUARY 3, 1987

IEA REPORT NO.: 103-113
103-114
103-115
103-116
103-117



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

February 3, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 13488
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-113

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 14, 1987.

| | | <u>Tag</u> <u>0250</u> | <u>Tag</u> <u>0256</u> |
|--------------|------|---------------------------|---------------------------|
| Petroleum | | | |
| Hydrocarbons | mg/L | <2.0 | <2.0 |

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

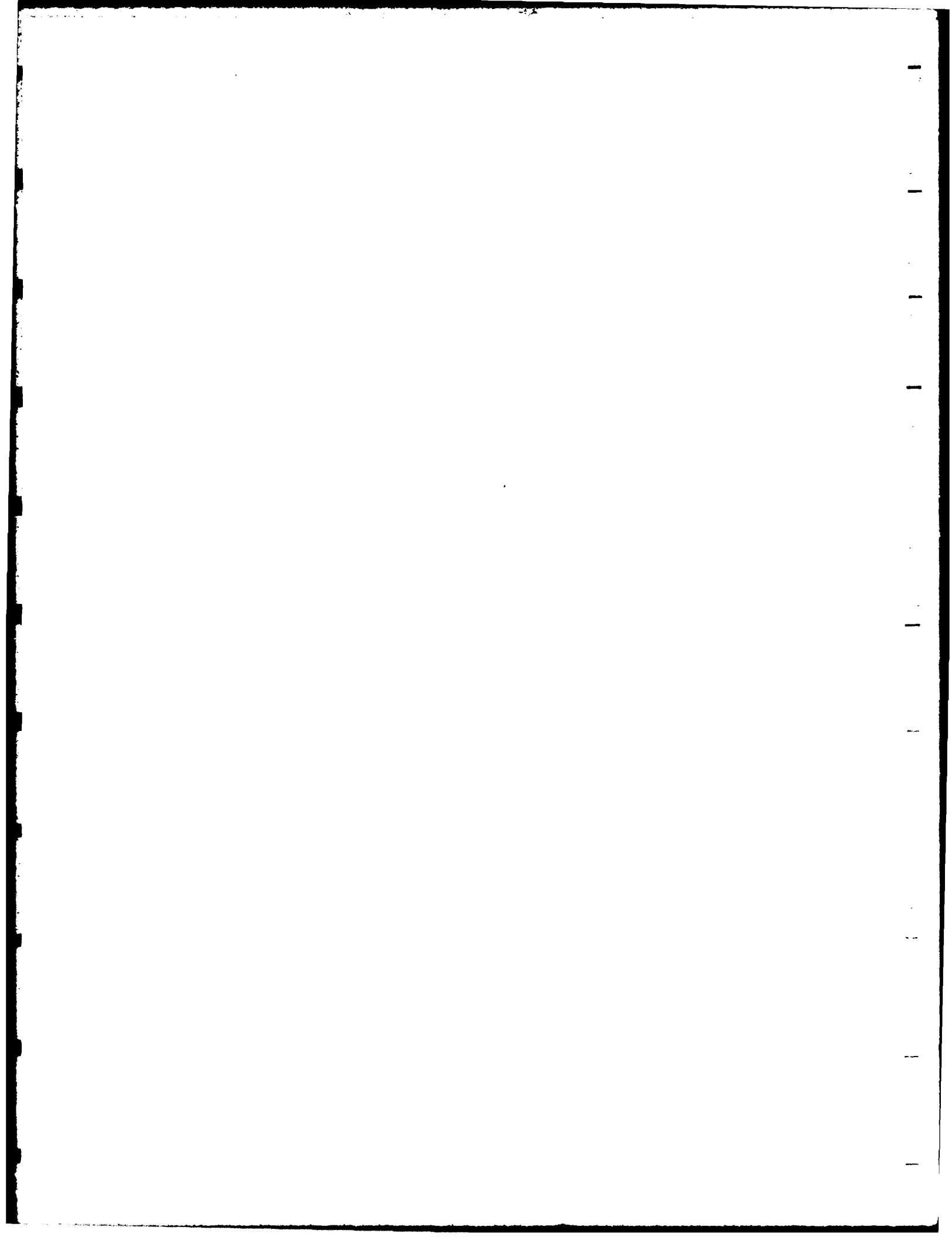
JBA/jcl

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FEB 4 1987

HYDROGEOLOGY DEPARTMENT

Offices and laboratories located in: Y-94 Junction, Vermont
Research Triangle Park, North Carolina



Comments

BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103113 5

Sample Identification 0247

Date Extracted January 23, 1987

Date Analyzed January 28, 1987

By Randall

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103113 10

Sample Identification 0263

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/l</u> | <u>ug/l</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103113 1

Sample Identification Tag 0240

Date Analyzed January 23, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103113 6

Sample Identification Tag 0252

Date Analyzed January 23, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| | | | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103113 2

Sample Identification Tag 0241

Date Analyzed January 23, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 19 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethane | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | 2.3 |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

BDL

Purgeable Halocarbons

IEA Sample No. 103113 7

Sample Identification Tag 0253

Date Analyzed January 23, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | 3.8 |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103113 4

Sample Identification 0251

Date Extracted January 23, 1987

Date Analyzed January 28, 1987

By Randall

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103113 9

Sample Identification 0262

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

6858N

IEA Sample No. 103113 4

Sample Identification 0251

Date Extracted January 23, 1987

Date Analyzed January 28, 1987

By Randell

GC/MS Base/Neutral Extractables

Detection Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

6258N

IEA Sample No. 103113 2

Sample Identification 0262

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

GC/MS Base/Neutral Extractables

Detection Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYLPHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

February 3, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 13488
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-114

Dear Mr. Alexander:

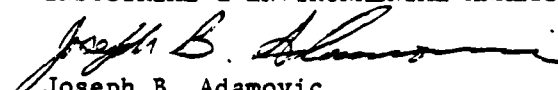
Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 14, 1987.

| | | <u>Tag</u> <u>0179</u> | <u>Tag</u> <u>0195</u> |
|--------------|------|---------------------------|---------------------------|
| Petroleum | | | |
| Hydrocarbons | mg/L | <2.0 | <2.0 |

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.


Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 4 1987

HYDROGEOLOGY DEPARTMENT

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103114 5

Sample Identification Q182

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103114 10

Sample Identification 0192

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103114 1

Sample Identification Tag 0175

Date Analyzed January 23, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103114 6

Sample Identification Tag 0185

Date Analyzed January 23, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103114 2

Sample Identification Tag 0176

Date Analyzed January 23, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103114 7

Sample Identification Tag Q186

Date Analyzed January 23, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/l</u> | <u>Concentration</u> <u>ug/l</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103114 4

Sample Identification 0181

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103114 2

Sample Identification 0191

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103114 4

Sample Identification 0181

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

(Date Collected
20 = 30)

GC/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/L | ug/L |
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITRISO-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103114 9

Sample Identification 0191

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

GC/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/L

ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COP

February 3, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 13488
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-115

Dear Mr. Alexander:

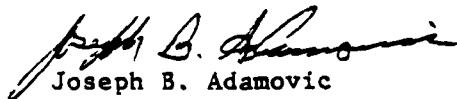
Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 14, 1987.

| | | <u>Tag</u> <u>0269</u> | <u>Tag</u> <u>0290</u> |
|--------------|------|---------------------------|---------------------------|
| Petroleum | | | |
| Hydrocarbons | mg/L | <2.0 | <2.0 |

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.


Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 4 1987

HYDROGEOLOGY DEPARTMENT

Y-116

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103115 1

Sample Identification Tag 0264

Date Analyzed January 23, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | 1.8 |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | 9.6 |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103115 6

Sample Identification Tag 0286

Date Analyzed January 23, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103115 2

Sample Identification Tag 0265

Date Analyzed January 23, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | 1.8 |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | 9.6 |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103115 7Sample Identification Tag 0287Date Analyzed January 23, 1987By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103115 4

Sample Identification 0271

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|----------------|
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103115 9

Sample Identification 0293

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> <u>Concentration</u> |
|---------------|--------------------|------------------------|--|
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

6256N

IEA Sample No. 103115 4

Sample Identification 0271

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

GC/MS Base/Neutral Extractables

Detection Limit

Concentration

| Number | Compound | ug/L | ug/L |
|--------|-------------------------------|------|------|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

6256N

IEA Sample No. 103115 9

Sample Identification 0293

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By Daniels

GC/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/L | ug/L |
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (gm) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103115 5

Sample Identification 0272

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL . | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

6254

GC/MS Acid Extractables

IEA Sample No. 103115 10

Sample Identification 0294

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

February 3, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 13488
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-116

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on twelve samples submitted to our laboratory on January 14, 1987.

| | | <u>Tag</u> <u>0280</u> | <u>Tag</u> <u>0306</u> |
|--------------|------|---------------------------|---------------------------|
| Petroleum | | | |
| Hydrocarbons | mg/L | <2.0 | <2.0 |

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 4 1987

HYDROGEOLOGY DEPARTMENT

Y-127

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103116 1

Sample Identification Tag 0275

Date Analyzed January 23, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | 5.4 |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103116 6

Sample Identification Tag 0297

Date Analyzed January 23, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103116 2

Sample Identification Tag 0276

Date Analyzed January 23, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | 6.4 |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103116 4

Sample Identification 0282

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

GC/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/L

ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITroso-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103116 11

Sample Identification 0308

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

GC/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/L

ug/L

| | | | |
|----|-------------------------------|----|-----|
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLORO BENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

025A

GC/MS Acid Extractables

IEA Sample No. 103116 5

Sample Identification 0283

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103116 12

Sample Identification 0309

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 193116 4

Sample Identification 0282

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1015 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 193116 11

Sample Identification 0308

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|--------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |



Industrial & Environmental Analysts, Inc.

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FILE COPY

February 3, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-117

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on seven samples submitted to our laboratory on January 14, 1987.

Petroleum
Hydrocarbons

mg/L

Tag
0316

<2.0

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 4 1987

RECEIVED

Y-137

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103117 1

Sample Identification Tag 0315

Date Analyzed January 20, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103117 2

Sample Identification Tag 0314

Date Analyzed January 20, 1987

By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103117 4

Sample Identification 0317

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|--------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | ALDRIN | 10 | BDL |
| 2 | Alpha - BHC | 10 | BDL |
| 3 | Beta - BHC | 10 | BDL |
| 4 | Delta - BHC | 10 | BDL |
| 5 | Gamma - BHC | 10 | BDL |
| 6 | CHLORDANE | 10 | BDL |
| 7 | 4,4'-DDD | 10 | BDL |
| 8 | 4,4'-DDE | 10 | BDL |
| 9 | 4,4'-DDT | 10 | BDL |
| 10 | DIELDRIN | 10 | BDL |
| 11 | ENDOSULFAN I | 10 | BDL |
| 12 | ENDOSULFAN II | 10 | BDL |
| 13 | ENDOSULFAN SULFATE | 10 | BDL |
| 14 | ENDRIN | 10 | BDL |
| 15 | ENDRIN ALDEHYDE | 10 | BDL |
| 16 | HEPTACHLOR | 10 | BDL |
| 17 | HEPTACHLOR EPOXIDE | 10 | BDL |
| 18 | TOXAPHENE | 10 | BDL |
| 19 | PCB 1016 | 10 | BDL |
| 20 | PCB 1221 | 10 | BDL |
| 21 | PCB 1232 | 10 | BDL |
| 22 | PCB 1242 | 10 | BDL |
| 23 | PCB 1248 | 10 | BDL |
| 24 | PCB 1254 | 10 | BDL |
| 25 | PCB 1260 | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

6252N

IEA Sample No. 103117 4

Sample Identification 0317

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

GC/MS Base/Neutral Extractables

| Number | Compound | Detection Limit | Concentration |
|--------|-------------------------------|-----------------|---------------|
| | | ug/L | ug/L |
| 1 | ACENAPHTHENE | 25 | BDL |
| 2 | ACENAPHTHYLENE | 10 | BDL |
| 3 | ANTHRACENE | 10 | BDL |
| 4 | BENZIDINE | 10 | BDL |
| 5 | BENZO (a) ANTHRACENE | 10 | BDL |
| 6 | BENZO (a) PYRENE | 10 | BDL |
| 7 | BENZO (b) FLUORANTHENE | 10 | BDL |
| 8 | BENZO (ghi) PERYLENE | 25 | BDL |
| 9 | BENZO (k) FLUORANTHENE | 10 | BDL |
| 10 | BIS (2-CHLOROETHOXY) METHANE | 10 | BDL |
| 11 | BIS (2-CHLOROETHYL) ETHER | 10 | BDL |
| 12 | BIS (2-CHLOROISOPROPYL) ETHER | 10 | BDL |
| 13 | BIS (2-ETHYLHEXYL) PHTHALATE | 10 | BDL |
| 14 | 4-BROMOPHENYL PHENYL ETHER | 10 | BDL |
| 15 | BENZYL BUTYL PHTHALATE | 10 | BDL |
| 16 | 2-CHLORONAPHTHALENE | 10 | BDL |
| 17 | 4-CHLOROPHENYL PHENYL ETHER | 10 | BDL |
| 18 | CHRYSENE | 10 | BDL |
| 19 | DIBENZO (a,h) ANTHRACENE | 10 | BDL |
| 20 | 1,2-DICHLOROBENZENE | 10 | BDL |
| 21 | 1,3-DICHLOROBENZENE | 10 | BDL |
| 22 | 1,4-DICHLOROBENZENE | 10 | BDL |
| 23 | 3,3'-DICHLOROBENZIDINE | 10 | BDL |
| 24 | DIETHYL PHTHALATE | 10 | BDL |
| 25 | DIMETHYL PHTHALATE | 10 | BDL |
| 26 | DI-N-BUTYL PHTHALATE | 10 | BDL |
| 27 | 2,4-DINITROTOLUENE | 10 | BDL |
| 28 | 2,6-DINITROTOLUENE | 10 | BDL |
| 29 | DI-N-OCTYL PHTHALATE | 10 | BDL |
| 30 | FLUORANTHENE | 10 | BDL |
| 31 | FLUORENE | 10 | BDL |
| 32 | HEXACHLOROBENZENE | 10 | BDL |
| 33 | HEXACHLOROBUTADIENE | 10 | BDL |
| 34 | HEXACHLOROCYCLOPENTADIENE | 10 | BDL |
| 35 | HEXACHLOROETHANE | 10 | BDL |
| 36 | INDENO (1,2,3-cd) PYRENE | 25 | BDL |
| 37 | ISOPHORONE | 10 | BDL |
| 38 | NAPHTHALENE | 10 | BDL |
| 39 | NITROBENZENE | 10 | BDL |
| 40 | N-NITROSODIMETHYLAMINE | 10 | BDL |
| 41 | N-NITROSO-DI-N-PROPYLAMINE | 10 | BDL |
| 42 | N-NITROSODIPHENYLAMINE | 10 | BDL |
| 43 | PHENANTHRENE | 10 | BDL |
| 44 | PYRENE | 10 | BDL |
| 45 | 1,2,4-TRICHLOROBENZENE | 10 | BDL |

Comments BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103117 5

Sample Identification 0318

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|----------------------------|------------------------|----------------------|
| | | <u>ug/L</u> | <u>Concentration</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BDL |
| 2 | 2-CHLOROPHENOL | 25 | BDL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BDL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BDL |
| 5 | 2,4-DINITROPHENOL | 250 | BDL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BDL |
| 7 | 2-NITROPHENOL | 25 | BDL |
| 8 | 4-NITROPHENOL | 25 | BDL |
| 9 | PENTACHLOROPHENOL | 25 | BDL |
| 10 | PHENOL | 25 | BDL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BDL |

IEA REPORT DATE: FEBRUARY 5, 1987

IEA REPORT NO.: 103-118

FILE COPY



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

February 5, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-118

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on two samples submitted to our laboratory on January 21, 1987.

| | | <u>Tag</u> <u>0371</u> | <u>Tag</u> <u>0375</u> |
|--------------|-------|---------------------------|---------------------------|
| Petroleum | | | |
| Hydrocarbons | mg/Kg | <25 | <25 |

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 5 1987

HYDROGEOLOGY DEPARTMENT

Y-144

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103118 1

Sample Identification Tag 0371

Date Analyzed February 5, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments 6DL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103118 2

Sample Identification Tag 0375

Date Analyzed February 3, 1987

By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------|------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | Benzene | 1.0 | BDL |
| 2 | Chlorobenzene | 1.0 | BDL |
| 3 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 4 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 5 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 6 | Ethylbenzene | 1.0 | BDL |
| 7 | Toluene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601

1,1,2-Trichloro-1,2,2-trifluoroethane -

Detection Limit: 1.0 ug/Kg Concentration: 3.5 ug/Kg

Purgeable Halocarbons

IEA Sample No. 103118 1Sample Identification Tag 0371Date Analyzed February 3, 1987By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethane | 1.0 | BDL |
| 19 | 1,2-Dichloropropene | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601

1,1,2-Trichloro-1,2,2-trifluoroethane -

Detection Limit: 1.0 ug/Kg

Concentration: 160 ug/Kg

Purgeable HalocarbonsIEA Sample No. 103118 2Sample Identification Tag 0375Date Analyzed February 3, 1987By Cornwell

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | 1.2 |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | 1.9 |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

IEA REPORT DATE: FEBRUARY 26, 1987

IEA REPORT NO.: 103-119



Industrial & Environmental Analysts, Inc.
P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

February 26, 1987

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Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

MAR 2 1987

HYDROGEOLOGY DEPARTMENT

Reference: IEA Report No. 103-119

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on sixteen samples submitted to our laboratory on January 30, 1987.

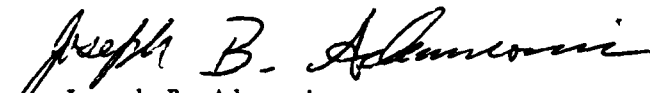
| | <u>Date Extracted</u> | <u>Date Analyzed</u> | <u>Tag 0385</u> | <u>Tag 0379</u> | <u>Tag 0484</u> * | <u>Tag 0498</u> * |
|---------------------------|---------------------------|--------------------------|---------------------|---------------------|-----------------------|-----------------------|
| Petroleum Hydrocarbons | 2-6-87 | 2-6-87 | <38 mg/Kg | <25 mg/Kg | <2.0 mg/L | <2.0 mg/L |

Please see the enclosed reports for the remainder of your results.

* Invalid Data.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.


Joseph B. Adamovic
Senior Chemist

JBA/jcl

Y-150

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

IEA REPORT DATE: MARCH 17, 1987

IEA REPORT NO.: 103-123
103-125
103-126



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

March 17, 1987

RECEIVED

MAR 17 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

HYDROGEOLOGY DEPARTMENT

Reference: IEA Report No. 103-123

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on twenty-two samples submitted to our laboratory on March 2, 1987.

Please see the enclosed reports for your results.

Very truly yours,

INDUSTRIAL & ENVIROMENTAL ANALYSTS, INC.

Joseph B Adamovic
Joseph B. Adamovic
Senior Chemist

TBN

JBA/jcl

Y-152

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601**Purgeable Halocarbons**IEA Sample No. 103123 6Sample Identification 0592 8Date Analyzed March 11, 1987By Folk

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 18 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 8

Sample Identification 0584

Date Analyzed March 11, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | 6.3 |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 3.5 |
| 19 | 1,2-Dichloropropene | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

601

Confirmatory analysis on 3% SP-1500 column.

Purgeable HalocarbonsIEA Sample No. 103123 12Sample Identification 0586Date Analyzed March 11, 1987By Folk

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 17 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | 10 |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601**Purgeable Halocarbons**IEA Sample No. 103123 16Sample Identification 0588Date Analyzed March 11, 1987By Folk

| <u>Number</u> | <u>Compound</u> | <u>Results</u> | |
|---------------|---------------------------|------------------------|----------------------|
| | | <u>Detection Limit</u> | <u>Concentration</u> |
| | | <u>ug/L</u> | <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | 6.4 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 20

Sample Identification 0590

Date Analyzed March 11, 1987

By Folk

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | 22 |
| 18 | trans-1,2-Dichloroethene | 1.0 | 52 |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | 16 |

Comments

BDL - BELOW DETECTION LIMIT

601

Confirmatory analysis on 3% SP-1500 column.

Purgeable HalocarbonsIEA Sample No. 103123 1Sample Identification 0806Date Analyzed March 12, 1987By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601**Purgeable Halocarbons**IEA Sample No. 103123 2Sample Identification 0807Date Analyzed March 12, 1987By Scott

| <u>Number</u> | <u>Compound</u> | <u>Detection Limit</u> | <u>Results</u> |
|---------------|---------------------------|------------------------|--------------------------------------|
| | | <u>ug/Kg</u> | <u>Concentration</u> <u>ug/Kg</u> |
| 1 | Bromodichloromethane | 1.0 | BDL |
| 2 | Bromoform | 1.0 | BDL |
| 3 | Bromomethane | 1.0 | BDL |
| 4 | Carbon tetrachloride | 1.0 | BDL |
| 5 | Chlorobenzene | 1.0 | BDL |
| 6 | Chloroethane | 1.0 | BDL |
| 7 | 2-Chloroethylvinyl ether | 1.0 | BDL |
| 8 | Chloroform | 1.0 | BDL |
| 9 | Chloromethane | 1.0 | BDL |
| 10 | Dibromochloromethane | 1.0 | BDL |
| 11 | 1,2-Dichlorobenzene | 1.0 | BDL |
| 12 | 1,3-Dichlorobenzene | 1.0 | BDL |
| 13 | 1,4-Dichlorobenzene | 1.0 | BDL |
| 14 | Dichlorodifluoromethane | 1.0 | BDL |
| 15 | 1,1-Dichloroethane | 1.0 | BDL |
| 16 | 1,2-Dichloroethane | 1.0 | BDL |
| 17 | 1,1-Dichloroethene | 1.0 | BDL |
| 18 | trans-1,2-Dichloroethene | 1.0 | BDL |
| 19 | 1,2-Dichloropropane | 1.0 | BDL |
| 20 | cis-1,3-Dichloropropene | 1.0 | BDL |
| 21 | trans-1,3-Dichloropropene | 1.0 | BDL |
| 22 | Methylene chloride | 1.0 | BDL |
| 23 | 1,1,2,2-Tetrachloroethane | 1.0 | BDL |
| 24 | 1,1,1-Trichloroethane | 1.0 | BDL |
| 25 | 1,1,2-Trichloroethane | 1.0 | BDL |
| 26 | Tetrachloroethene | 1.0 | BDL |
| 27 | Trichlorofluoromethane | 1.0 | BDL |
| 28 | Vinyl Chloride | 1.0 | BDL |
| 29 | Trichloroethene | 1.0 | BDL |

IEA REPORT NO.: 103-137

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 5

Sample Identification 0735

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 6

Sample Identification 0771

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

| <u>Number</u> | <u>Compound</u> | <u>Quantitation Limit</u> | <u>Results</u> |
|---------------|----------------------------|---------------------------|-------------------------------------|
| | | <u>ug/L</u> | <u>Concentration</u> <u>ug/L</u> |
| 1 | 4-CHLORO-3-METHYLPHENOL | 25 | BQL |
| 2 | 2-CHLOROPHENOL | 25 | BQL |
| 3 | 2,4-DICHLOROPHENOL | 25 | BQL |
| 4 | 2,4-DIMETHYLPHENOL | 25 | BQL |
| 5 | 2,4-DINITROPHENOL | 250 | BQL |
| 6 | 2-METHYL-4,6-DINITROPHENOL | 250 | BQL |
| 7 | 2-NITROPHENOL | 25 | BQL |
| 8 | 4-NITROPHENOL | 25 | BQL |
| 9 | PENTACHLOROPHENOL | 25 | BQL |
| 10 | PHENOL | 25 | BQL |
| 11 | 2,4,6-TRICHLOROPHENOL | 25 | BQL |

| Tag | Petroleum Hydrocarbon Extraction Date | Petroleum Hydrocarbon Analysis Date | 8015 Analysis Date |
|------|--|--|--------------------------|
| 0169 | 1-13-87 | 1-13-87 | |
| 0321 | 1-13-87 | 1-13-87 | |
| 0206 | 1-27-87 | 1-27-87 | |
| 0210 | 1-27-87 | 1-27-87 | |
| 0220 | 1-27-87 | 1-27-87 | |
| 0233 | 1-27-87 | 1-27-87 | |
| 0250 | 1-27-87 | 1-27-87 | |
| 0256 | 1-27-87 | 1-27-87 | |
| 0537 | | | 2-5-87 |
| 0466 | | | 2-5-87 |
| 0179 | 1-27-87 | 1-27-87 | |
| 0195 | 1-27-87 | 1-27-87 | |
| 0269 | 1-28-87 | 1-28-87 | |
| 0290 | 1-28-87 | 1-28-87 | |
| 0371 | 2-2-87 | 2-3-87 | 1-28-87 |
| 0375 | 2-2-87 | 2-3-87 | 1-28-87 |
| 0280 | 1-28-87 | 1-28-87 | |
| 0306 | 1-28-87 | 1-28-87 | |
| 0301 | | | 1-23-87 |
| 0316 | 1-28-87 | 1-28-87 | |

| Tag | Petroleum Hydrocarbon Extraction Date | Petroleum Hydrocarbon Analysis Date | 8015 Analysis Date |
|------|--|--|--------------------------|
| 0035 | 12-1-86 | 12-1-86 | 11-20-86 |
| 0036 | 12-1-86 | 12-1-86 | 11-20-86 |
| 0040 | 12-1-86 | 12-1-86 | 11-20-86 |
| 0044 | 12-1-86 | 12-1-86 | 11-20-86 |
| 0048 | 12-1-86 | 12-1-86 | 11-20-86 |
| 0052 | 12-1-86 | 12-1-86 | 11-20-86 |
| 0056 | 12-1-86 | 12-1-86 | 11-20-86 |
| 0060 | 12-1-86 | 12-1-86 | 11-20-86 |
| 0064 | 12-1-86 | 12-1-86 | 11-20-86 |
| 0020 | 12-1-86 | 12-1-86 | 11-19-86 |
| 0024 | 12-1-86 | 12-1-86 | 11-19-86 |
| 0028 | 12-1-86 | 12-1-86 | 11-19-86 |
| 0032 | 12-1-86 | 12-1-86 | 11-19-86 |
| 0067 | 12-1-86 | 12-1-86 | 11-19-86 |
| 0121 | 1-13-87 | 1-13-87 | |
| 0127 | 1-13-87 | 1-13-87 | |
| 0133 | 1-13-87 | 1-13-87 | |
| 0139 | 1-13-87 | 1-13-87 | |
| 0149 | 1-13-87 | 1-13-87 | |
| 0159 | 1-13-87 | 1-13-87 | |

APPENDIX Z

REPORTED INORGANIC LABORATORY RESULTS

(Valid and Invalid Data)

Note: Some of the data reported in Appendix Z are regarded as invalid, as footnoted herein and in Volume 3. The basis for regarding these data as invalid is a result of missed holding times. Refer to Section 4 of the report (Vol. 1) for additional information.

15 pp minus (50) 10000

12-3,9,10,11,23,25-26

Date(s) of Analysis:

Analyst:

B. V. V. V.

Sample Type:

Soil

Notebook No., Pg. No.'s Showing Sample Weights

5411:1,2

Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: 4824-2676-16 Seymour Johnson

| Element | 49/9 | | | | | | | | | | 49/9 | | 49/9 | | 49/9 | | 49/9 | | 49/9 | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 |
| Fe | 3420 | 7240 | 10440 | 15100 | 18400 | 21400 | 24400 | 27400 | 30400 | 33400 | 36400 | 39400 | 42400 | 45400 | 48400 | 51400 | 54400 | 57400 | 60400 | 63400 |
| Al | 4970 | 23800 | 7060 | 2150 | 104 | 958 | 971 | 971 | 971 | 971 | 971 | 971 | 971 | 971 | 971 | 971 | 971 | 971 | 971 | 971 |
| Si | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Pb | 82.9 | 7.34 | ND | 6.25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ni | ND | 3.16 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cu | 6.21 | ND | ND | 3.96 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Zn | 36.4 | 4.22 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bc | 0.165 | 0.341 | 0.250 | 0.16 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ag | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cd | 0.37 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cr | 12.1 | 11.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tl | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| As | 0.804 | 2.296 | 2.043 | 2.95 | 0.080 | 1.102 | 0.914 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Se | 2.226 | ND | 0.347 | 0.599 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Hg | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Date(s) of Analysis: _____ Analyst: B. Vidale Sample Type: Water Notebook No., Pg. No.'s Showing Sample Weights 5411, 5, 6, 7
Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: Sequoyia Johnson - February 1987 (2-27-1987)
BY JC MIV/12

[illegible]

7-20-72

P. Dodge

Date(s) of Analysis: 2-4, 5, 8-87 Analyst: B. Wilson, Sample Type: Water Notebook No., Pg. No.'s Showing Sample Weights 5411-7, 10
Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: 4324-2676-16 Seymour Johnson - February 1987

[illegible]

Date(s) of Analysis: _____ Analyst: _____ Sample Type: _____ Notebook No.: Pg. No.'s Showing Sample Weights

Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: _____

| Element | SW | | | | MW | SW | MW | SW | MW | Sample Number | Detection Limit | Replicates | | Check Samples | | QA Sample | | QA Spike | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|-----------------|------------|-------|---------------|-------|--------------|-------|--------------|-------|
| | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | | | 447 | 412 | Expect Found | Found | Expect Found | Found | Expect Found | Found |
| As | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.002 | | | | | | | | |
| Sb | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.006 | | | | | | | | |
| Be | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0012 | | | | | | | | |
| Cd | 0.012 | 0.008 | ND | ND | ND | ND | ND | ND | ND | ND | 0.006 | | | | | | | | |
| Cr | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.008 | | | | | | | | |
| Cu | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.014 | | | | | | | | |
| Pb | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.053 | | | | | | | | |
| Hg | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0002 | ND | | | | | | | |
| Ni | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.010 | | | | | | | | |
| Se | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.004 | | | | | | | | |
| Ag | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.007 | | 0.011 | | | | | | |
| Tl | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.002 | | | | | | | | |
| Zn | 0.435 | 0.153 | 0.081 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.003 | | | | | | | | |

Date(s) of Analysis: 2-8, 2, 10-87 Analyst: P. Hulse, B. Jukow Sample Type: Sail Notebook No., Pg. No.'s Showing Sample Weights: 5411 i 9, 10
Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: Seymour Tabasa - February 1987 (28-4-16)

[illegible]

* (INVALID DATA)

Date(s) of Analysis: 11-5-61 Analyst: B. J. Jones Sample Type: Soil Notebook No., Pg. No.'s Showing Sample Weights 2915-98
 Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: 4334-2676-16 See above Johnson

Date(s) of Analysis: 11-5-61 Analyst: B. J. Jones Sample Type: Soil Notebook No., Pg. No.'s Showing Sample Weights 2915-98
 Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: 4334-2676-16 See above Johnson

Date(s) of Analysis: 11-5-61 Analyst: B. J. Jones Sample Type: Soil Notebook No., Pg. No.'s Showing Sample Weights 2915-98
 Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: 4334-2676-16 See above Johnson

Date(s) of Analysis: 11-5-61 Analyst: B. J. Jones Sample Type: Soil Notebook No., Pg. No.'s Showing Sample Weights 2915-98
 Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: 4334-2676-16 See above Johnson

[illegible]

1314 000000 50000 4 100

Date(s) of Analysis: 12-3-23-26 Analyst: B. Wilson Sample Type: Sail Notebook No.: Pg. No.'s Showing Sample Weights 5411;

Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: 4324-2676-16 Seymour Johnson

| Element | 49/9 | | 49/9 | | 49/9 | | 49/9 | | 49/9 | | 49/9 | | 49/9 | | 49/9 | | 49/9 | |
|---------|-------|------|---------------|------------|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 79 | 49/9 | Sample Number | Replicates | FPA WP 481 Check Samples WP 243 | Expect Found | Expect Found | Expect Found | Expect Found | Expect Found | Expect Found | Expect Found | Expect Found | Expect Found | Expect Found | Expect Found | Expect Found | Expect Found |
| Fe | 1230 | 49/9 | 1230 | 79 | 0.788 | 0.75 | | | | | | | | | | | | |
| Al | 10200 | 49/9 | 10200 | 1280 | 0.746 | 0.74 | | | | | | | | | | | | |
| Sb | 19.9 | 49/9 | 19.9 | 20.0 | | | | | | | | | | | | | | |
| Ph | 10.6 | 49/9 | 10.6 | 16.8 | 0.435 | 0.444 | 2.00 | 2.17 | | | | | | | | | | |
| Ni | ND | 49/9 | ND | ND | 0.206 | 0.199 | | | | | | | | | | | | |
| Cu | ND | 49/9 | ND | ND | 0.335 | 0.362 | | | | | | | | | | | | |
| Zn | 0.80 | 49/9 | 0.80 | ND | 0.418 | 0.569 | | | | | | | | | | | | |
| Be | 0.229 | 49/9 | 0.229 | 0.238 | 0.232 | 0.232 | | | | | | | | | | | | |
| Ag | 4.91 | 49/9 | 4.91 | 4.54 | | | 1.00 | 0.984 | | | | | | | | | | |
| Ca | ND | 49/9 | ND | ND | 0.039 | 0.040 | 0.70 | 0.71 | | | | | | | | | | |
| Cr | 4.68 | 49/9 | 4.68 | 4.56 | 0.261 | 0.290 | 1.25 | 1.36 | | | | | | | | | | |
| Tl | ND | 49/9 | ND | ND | (FPA WP 481) 25.3 | 24.5 | | | | | | | | | | | | |
| Mn | 3.83 | 49/9 | 3.83 | 3.98 | 0.348 | 0.376 | | | | | | | | | | | | |
| V | 4.67 | 49/9 | 4.67 | 4.44 | 0.864 | 0.896 | | | | | | | | | | | | |
| Co | 1.08 | 49/9 | 1.08 | ND | 0.261 | 0.271 | | | | | | | | | | | | |
| Ba | 22.1 | 49/9 | 22.1 | 23.4 | | | | | | | | | | | | | | |
| Mg | 104 | 49/9 | 104 | 117 | | | | | | | | | | | | | | |
| Mo | ND | 49/9 | ND | ND | | | | | | | | | | | | | | |
| B | 210 | 49/9 | 210 | 194 | | | | | | | | | | | | | | |
| Ca | 29.9 | 49/9 | 29.9 | 32.7 | | | | | | | | | | | | | | |
| Si | 538 | 49/9 | 538 | 436 | | | | | | | | | | | | | | |
| Na | 96.8 | 49/9 | 96.8 | 9.7 | | | | | | | | | | | | | | |
| K | 121 | 49/9 | 121 | 121 | | | | | | | | | | | | | | |

Leysman Johnson - February 1987 (21-46-15)

[illegible]

| | SAMPLE ID (Date) | DATE OF ANALYSIS | F μg/mL | CL μg/mL | NO ₂ [*] μg/mL | PO ₄ [*] μg/mL | BE μg/mL | NO ₃ [*] μg/mL | SO ₄ μg/mL | REMARKS |
|------------------|------------------------|----------------------|------------|-------------|---------------------------------------|---------------------------------------|-------------|---------------------------------------|--------------------------|---------|
| W-51 (21 Jan) | (438) | 2/2, 2/3 123, 131 | N.D. | 40.60 | N.D.* | N.D.* | 1.991 | 0.154* | 0.217 | S-5 |
| W-52 (21 Jan) | (446) | 2/2/87 128 | 0.035 | 0.166 | ND* | ND* | ND | ND* | 0.250 | S-5 |
| W-53 (21 Jan) | (449) | 2/2, 2/3 123, 131 | N.D. | 30.01 | N.D.* | N.D.* | 1.376 | N.D.* | 15.564 | S-5 |
| W-54 (21 Jan) | (456) | 2/2, 2/3 123, 138 | 0.056 | 8.150 | ND.* | N.D.* | N.D. | 4.322* | 17.955 | M-5 |
| W-55 (23 Jan) | (462) | 2/2/87 103 | 0.033 | 4.352 | ND* | ND* | 0.169 | 4.678* | 14.066 | S-5 |
| W-56 (24 Jan) | (504) | 2/2, 2/3 53, 63 | 0.093 | 6.726 | ND* | ND* | 0.102 | ND* | 57.118 | S-5 |
| W-57 (24 Jan) | (514) | 2/2/87 53 | 0.048 | 2.319 | N.D.* | 0.698* | N.D. | 0.171* | 16.231 | S-5 |
| W-58 (24 Jan) | (524) | 2/3/87 64 | ND | 22.990 | ND* | ND* | 1.034 | ND* | 10.780 | S-5 |
| W-59 (24 Jan) | (530) | 2/3/87 65 | ND | 23.264 | ND* | ND* | 1.036 | ND* | 10.900 | S-5 |
| W-60 (24 Jan) | (531) | 2/2/87 138 | 0.018 | 3.979 | ND* | ND* | ND | ND* | 13.031 | S-5 |
| (* INVALID DATA) | | | | | | | | | | |

(*INVALID DATA)

Z-12

WET CHEMICAL ANALYSIS SHEETS

DATE RECEIVED: 4/14/87 / 4/23/87*

DATE ANALYZED 4/14-4/15/87 / 4/23-4/24/97*

ANALYST: HARDISON / RTI

CLIENT: SJAFB 2676-12

ANALYTE: TOTAL CYANIDES[illegible]

Detection Limit
soils $0.5 \mu\text{g/g}$
liquid $0.02 \mu\text{g/ml}$

RECEIVED

APR 29 1987

HYDROGEOLOGY DEPARTMENT :

| Sample # | Date Analyzed | NO ₂ µg/mL | PO ₄ µg/mL | NO ₃ µg/mL |
|---------------|---------------|-----------------------|-----------------------|-----------------------|
| 1-3 (0663) | 4/15/87 | ND | ND | ND |
| (0667) | " | ND | ND | 0.086 |
| 11-3 (0677) | " | ND | ND | ND |
| (0683) | " | ND | ND | 3.493 |
| (0712) | " | ND | ND | 2.014 |
| 11-12 (0739) | " | ND | ND | 0.217 |
| 11-3 (0743) | " | ND | ND | ND |
| 11-6 (0766) | 4/16/87 | ND | ND | ND |
| (0718) | " | ND | ND | ND |
| (0722) | " | ND | ND | ND |
| (0726) | " | ND | ND | ND |
| (0769) | " | ND | ND | ND |
| 11-4 (0687) | 4/17/87 | ND | ND | ND |
| (0699) | " | ND | ND | ND |
| (0691) | " | ND | ND | ND |
| 11-5 (0695) | " | ND | ND | ND |
| 11-3 (0671) | 4/23/87 | ND | ND | ND |
| 11-5 (0703) | " | ND | ND | ND |
| 11-5 (0730) | " | ND | ND | 2.245 |
| (S 25) (0745) | " | ND | ND | ND |
| (0749) | " | ND | ND | ND |
| 11-6 (0770) | " | ND | ND | ND |
| 11-6 (0765) | " | ND | 2-14 ND | ND |

NO AFFIDARE

Z-15

WET CHEMICAL ANALYSIS SHEETS

DATE RECEIVED: 2/2/87

DATE ANALYZED 2/2-2/9/87

ANALYST: Hardison

CLIENT: SIABR 2676-1b

ANALYTE: TOTAL CN'-Method 335.2

HT_r : 24 h (max) / 14 d (neg)

| RTI # | CLIENT # | SAMPLE CONCENTRATION | | | Detection Limit |
|--------------------------------|-----------|----------------------|-----------|----------------|-------------------------------------|
| | | Total ug | Soil ug/g | Water ug/mL | |
| SD - 15 (23 Jan) 0362 (5-21) | 10d - 17d | | ND | | Soils 0.5 ug/g Liquid 0.02 ug/mL |
| SD - 14 (23 Jan) 0360 ✓ | 10d - 17d | | ND | | |
| MW - 51 (23 Jan) 0538 (5-7) | 10d - 17d | | | ND * | |
| (23 Jan) MW - 62 * 0473 (5-7) | 10d - 17d | | | ND | |
| SN - 13 (23 Jan) 0508 (5-22) | 5d - 12d | | | ND * | |
| → SN - 12 (23 Jan) 0518 (5-22) | 5d - 12d | | | ND * | |
| → SN - 20 (23 Jan) 0536 (5-22) | 5d - 12d | | | ND * | |
| 0508 - DUPLICATE | | | | ND | |
| 0508 + SPIKE | | | | 93.7% Recovery | |
| (* INVALID DATA) | | | | | |

WET CHEMICAL ANALYSIS SHEETS

DATE RECEIVED: 12/4/86 DATE ANALYZED: 12/12/86
 ANALYST: DLH CLIENT: 2676-16 (CLARE)
 ANALYTE: TOTAL CYANIDE Soils

HTS (water) 24 hr (max), 148 (regulatory)

| | RTI # | CLIENT # | SAMPLE CONCENTRATION | | |
|---------------------|-------|----------|----------------------|--------------|-------|
| | | | Total ug | ug/g | ug/mL |
| SB-57, 2-4' (13 No) | 0038 | 300 | | <0.5 | |
| 4-6 | 0042 | 5-13 | | <0.5 | |
| 9-11 | 0046 | 5-13 | | <0.5 | |
| 11-13 | 0050 | 5-13 | | <0.5 | |
| SB-55, 1-3' | 0054 | 5-13 | | <0.5 | 511 |
| 3-5 | 0058 | 5-13 | | <0.5 | 55 |
| 3-11 | 0062 | 5-13 | | <0.5 | |
| 11-13 | 0066 | 5-13 | | <0.5 | |
| 13-15 ✓ | 0068 | 5-13 | | <0.5 | |
| SB-5, 0-2' (12 No) | 0022 | 5-14 | | <0.5 | |
| 3-5 | 0026 | 5-14 | | <0.5 | |
| 8-10 | 0030 | 5-14 | | <0.5 | |
| 13-15 ✓ | 0034 | 5-14 | | <0.5 | |
| Duplicate of 0068 | | | | <0.5 | |
| Spike of 0068 | | | | 98% recovery | |
| Blank #1 | | | | <0.5 | |
| Blank #2 | | | | <0.5 | |
| (* INVALID DATA) | | | | | |

→ 52
→ 56
T
= 107

TDS data*

(FILTERABLE RESIDUE 4324-2676)

| ID | EMPTY DISH (gms) | DISH + SOLIDS (gms) | Reading 2 | Reading 3 | Avg (whole num conv) | TOTAL DISSOLVED SOLIDS (mg) | FILTERABLE RESIDUE (mg) |
|-------|------------------|---------------------|-----------|-----------|----------------------|-----------------------------|---|
| M-50 | 0323 | 69.5921 | 69.5931 | 69.5936 | .5934 | 13 | 6 |
| M-12 | 0335 | 68.8691 | 68.8780 | 68.8783 | .8782 | 91 | 5 |
| M-14 | 0342 | 70.0920 | 70.0967 | 70.0972 | .0970 | 50 | 10 |
| M-15 | 0347 | 70.0216 | 70.0282 | 70.0290 | .0286 | 70 | 10 |
| M-16 | 0354 | 69.2206 | 69.2837 | 69.2834 | .0236 | 30 | 10 |
| M-17 | 0369 | 67.0333 | 67.0500 | 67.0494 | .0497 | 164 | 10 |
| M-143 | 0399 | 69.9034 | 69.9034 | 69.9043 | .9039 | 5 | (M-11) |
| M-149 | 0409 | 102.3569 | 102.3915 | 102.3921 | .3918 | 349 | (M-11) |
| M-143 | 0415 | 106.5781 | 106.5886 | 106.5888 | .5887 | 106 | (M-11) |
| M-1 | 0421 | 97.4746 | 97.4812 | 97.4806 | .4809 | 63 | (M-11) |
| M-5 | 0423 | 72.2358 | 72.2420 | 72.2425 | .2423 | 65 | (M-11) |
| M-13 | 0429 | 101.1748 | 101.1938 | 101.1943 | .1941 | 193 | (M-11) |
| M-1 | 0436 | 100.5819 | 100.5955 | 100.5950 | .5953 | 134 | Some drops of M-11 |
| M-1 | 0442 | 97.5869 | 97.6500 | 97.6495 | .6498 | 629 | Suction water soaked back into flask at one pt. the sample. |
| M-1 | 0448 | 102.6783 | 102.6793 | 102.6798 | .6796 | 13 | (M-11) |
| M-53 | 0453 | 101.4634 | 101.5205 | 101.5210 | .5208 | 574 | (M-11) |
| M-11 | 0460 | 97.1027 | 97.1104 | 97.1108 | .1106 | 79 | (M-11) |
| M-54 | 0468 | 68.5611 | 68.5627 | 68.5631 | .5629 | 18 | (M-11) |
| M-3 | 0510 | 68.4692 | 68.4795 | 68.4790 | .4793 | 101 | (M-11) |
| M-12 | 0520 | 68.3001 | 68.3089 | 68.3094 | .3092 | 31 | (M-11) |
| M-1 | 0528 | 67.8324 | 67.9045 | 67.9047 | .9046 | 722 | (M-11) |
| M-1 | 0535 | 70.3636 | 67.4306 | 67.4312 | .4309 | 673 | (M-11) |

FILTERABLE RESIDUE, mg/l = $\frac{(res + dish - dish) \times 1000}{vol of sample (ml)}$

Note - samples were evaporated on hot plate directly at beginning of evaporation step. When liquid level was near the bottom of beaker, samples were transferred to steam bath & dried.

180°C, 1 hr., then 50°C under 20 psig vacuum overnight. 100ml vol of sample was used.

Angel Reese filters 94AH

Delman filter apparatus

Water aspirated vacuum filter

made desiccator out of large washing square halogen tub by adding desiccant at bottom & taping cover shut.

*(All TDS data are invalid)

SJAFB
2676-16

Total Alkalinity

3/9/87

Sample. mg/L CaCO₃

✓ 545 P.S-3 ND

✓ 543 P.S-29 ND (INCORRECT STICKER NO. ON P.S-29)

✓ 544 P.S-29 ND

✓ 567 P.S-3 ND

20 FEB 87

| <u>Sample</u> | <u>Initial pH</u> | <u>Total Alkalinity, mg/L CaCO₃</u> |
|-------------------|-------------------|--|
| NW-54/70 7' - 10' | 5.07 | 2.5 |
| NW-54/75 7' - 10' | 5.98 | 0.5 (BLANK) |
| 5-12 7' - 10' | 3.94 | 0 |
| 5-22 7' - 10' | 6.07 | 7.0 |
| 2-5-34 7' - 10' | 5.15 | 4.5 |
| Detection limit | | 10 |

Note: All samples below detection limit.

- 1) field blank
- 2) Blank dup MW-54; 10' S (23 JAN '87)